2013

# Minnesota Chemicals of High Concern Report



Minnesota Department of Health Toxic Free Kids Program 7/1/2013



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#### **About This Report**

This report and the 2013 update of the Minnesota Chemicals of High Concern list (CHC) were completed by the Toxic Free Kids (TFK) program. Through the TFK program, the Minnesota Department of Health (MDH) is working to identify and communicate the potential for hazardous chemical exposures which could be harmful to human health, particularly to vulnerable or susceptible populations, such as children and pregnant women. The TFK program is housed in the Health Risk Assessment Unit within the Environmental Health Division at MDH. The TFK program works on updating and reviewing the CHC and Priority Chemical (PC) lists established by Minnesota statute, nominating chemicals for development of health based guidance values within other MDH programs such as the Contaminants of Emerging Concern

(CEC) program, and is involved in risk communication efforts. The TFK program supports the MDH mission to protect, maintain, and improve the health of all Minnesotans.

This 2013 TFK program report describes the review and revision of the CHC list since it was first published in 2010. This document lists chemicals added and excluded from the 2013 CHC list and includes web links to the full 2013 CHC list. In addition, this document includes an update on a second list, the PC list. MDH also describes TFK program plans for future actions regarding this Minnesota statute. This document concludes with a brief update on the status of other states with similar chemical legislation which were integral in the original formation of the Minnesota 2010 CHC list.



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## **Acronyms and Abbreviations**

ATSDR Agency for Toxic Substances and Disease Registry

BCF Bioconcentration Factor
BBP Butyl benzyl phthalate

BPA Bisphenol A

CA EPA California Environmental Protection Agency
CAL Prop 65 California Proposition 65 (under CA EPA)
CDR Chemical Data Reporting (under EPA)

CEC Chemicals of Emerging Concern (under MDH)

ChAMP Chemical Assessment and Management Program (under EPA)
CHC Chemicals of High Concern (States of Minnesota and Maine)
CHCC Chemicals of High Concern for Children (State of Washington)

ChV Chronic Value

COC Chemicals of Concern (States of Maine and California)
CSPA Children's Safe Product Act (under State of Washington)

DBP Dibutyl phthalate

decaBDE Decabromodiphenyl ether
DEHP Di (2-ethylhexyl) phthalate

DfE Design for the Environment (under EPA)

EC European Commission EC<sub>50</sub> Effective Concentration 50

EPA U.S. Environmental Protection Agency

ESIS European chemical Substances Information System

EU European Union HB House Bill

HBCD Hexabromocyclododecane

HHS U.S. Department of Health and Human Services

HPV High Production Volume

HSDB Hazardous Substances Data Bank (maintained by NLM)
IARC International Agency for Research on Cancer (under WHO)
IRIS Integrated Risk Information System (maintained by EPA)

LC<sub>50</sub> Lethal Concentration 50

LOAEC Lowest Observed Adverse Effect Concentration

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

Maine DEP Maine Department of Environmental Protection

MDH Minnesota Department of Health MPCA Minnesota Pollution Control Agency NIH U.S. National Institute of Health NLM U.S. National Library of Medicine

NOAEC No Observed Adverse Effect Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NTP U.S. National Toxicology Program

OECD Organisation for Economic Co-operation and Development

## **Acronyms and Abbreviations Continued**

OSPAR Oslo and Paris Commission

OPPT Office of Pollution Prevention and Toxics (under EPA)
PC Priority Chemical (States of Minnesota and Maine)

PBT Persistent, Bioaccumulative, and Toxic

PBiT Persistent, Bioaccumulative, and inherently Toxic

REACH Registration, Evaluation, Authorisation, & Restriction of Chemicals

(under EU)

SIDS Screening Information Data Set

TDCPP tris(1, 3-dichloro-2-propyl)phosphate

TSCA Toxic Substances Control Act (under EPA) vPvB very Persistent and very Bioaccumulative

WHO World Health Organization

#### **Executive Summary**

The Minnesota Chemicals of High Concern (CHC) list was created by the Minnesota Department of Health (MDH) as a result of state legislation, Minnesota Statutes 116.9401 to 116.9407, which passed in 2009 (Minnesota Statutes 2012). The purpose of the CHC list is to identify chemicals which could be harmful to human or environmental health and specifically chemicals which are suspected carcinogens, reproductive or developmental toxicants, or persistent, bioaccumulative, and toxic or very persistent and very bioaccumulative.

The original CHC list was published in 2010 and contained 1,756 chemicals. From this CHC list a smaller chemical list, called the Priority Chemical (PC) list, was derived which consists of nine chemicals. The chemicals on the PC list meet the CHC requirements and are high production volume (HPV) chemicals (as identified by the U.S. Environmental Protection Agency (EPA)) that have been found, through sampling and analysis, to be in human tissue, the natural environment or the household environment.

Both the CHC list and PC list are dynamic lists and reviews and revisions of the lists are a continuous process. Part of the 2013 CHC list update included rapid evaluation of chemicals on the 2010 CHC list for the data needed to meet the Minnesota requirements for a CHC. The evaluation involved determining whether each chemical would be retained on the 2013 CHC list or flagged for further, in-depth review and possible 2013 CHC list exclusion. In particular, new data and updated models provided more information for evaluating the persistent, bioaccumulative and inherently toxic (PBiT), chemicals listed by Canada. As a result of the rapid evaluation of data and the PBiT chemical review, MDH excluded 57 chemicals from the 2013 CHC list that had been listed in 2010 CHC list (Appendix 1).

An update to the CHC list also included reviewing chemicals that could be added to the list. MDH monitors new toxicity literature as well as authoritative state, national, and international chemical hazard lists for chemicals which meet the Minnesota CHC requirements. Through this process MDH added 32 chemicals to the 2013 CHC list (Appendix 2). As a result of the removals and additions, the CHC list went from 1,756 chemicals in 2010 to 1,731 chemicals in 2013. There are around 260 chemicals on the 2013 CHC list that are flagged for further review in the coming year.

There is no change to the nine chemicals on the PC list. MDH is in the process of reviewing one candidate chemical and one candidate chemical group for potential PC list inclusion. The chemical is tris(1, 3-dichloro-2-propyl)phosphate (TDCPP) and the chemical group is nonylphenol including its ethoxylates (see Appendix 3 for CAS numbers). MDH is working with its state partners to assess the data for these candidate chemicals in a way that ensures consistency in priority chemical listing.

In early 2013 the U.S. Environmental Protection Agency (EPA) released the non-confidential 2012 Chemical Data Reporting (CDR) information which contains data for HPV chemicals (U.S. Environmental Protection Agency, 2013). This is the first update of HPV chemical data since the last reporting cycle in 2006. This most recent cycle of HPV chemical data reporting provides information for 7,674 chemicals which MDH is in the process of reviewing. Review of the latest HPV data could result in one of three outcomes for a CHC's HPV status: 1) no change, 2) added HPV status, or 3) removal of HPV status. The HPV status of a chemical on the CHC list is important because it affects the eligibility of a chemical for PC list consideration. Any changes in status will be reflected in the 2013 published list once MDH completes the HPV chemical review (see web link below).

Moving forward with chemical toxicity assessments, MDH will no longer use the chemical hazard guidelines of EPA's now defunct Chemical Assessment and Management Program (ChAMP) and will instead use EPA's Design for the Environment (DfE) Alternatives Assessment chemical hazard guidelines (U.S. Environmental Protection Agency, 2011). These guidelines provide a basis by which to assess and prioritize chemical hazards. This change is being made because it is more practical to use hazard guidelines of an active program (DfE). MDH chose to use the guidelines of the DfE program because the criteria ranges are agreed upon by other national and international organizations as being appropriate for chemical hazard identification (e.g. United Nation's Globally Harmonized System for the Classification and Labeling of Chemicals). The DfE Alternatives Assessment program contains similar hazard categories as ChAMP, which also allows for a smooth transition.

MDH monitors the status of chemical legislations across the country to understand the similar actions being taken by other states and to gather information on the direction of chemical policies within the United States. MDH closely monitors chemical hazard laws of the states of Maine and Washington because of similar legislation and mandates to that of Minnesota's. Currently the states of California, Oregon and North Carolina are attempting to pass related chemical hazard legislation.

The updated 2013 CHC list and this report are published to the MDH website and can be found here: <a href="http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/index.html">http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/index.html</a>. Future updates and revisions will also be published to this MDH website. To receive notifications of MDH activity related to this legislation the public can sign up for GovDelivery e-mails at the above web link as well.

# Minnesota Chemicals of High Concern Report

# **Legislative Background**

In 2009 state legislation was passed related to concerns about potentially hazardous chemicals being found in consumer products, especially those intended for children. This legislation requires the Minnesota Department of Health (MDH), in consultation with the Minnesota Pollution Control Agency (MPCA), to create and maintain two lists of chemicals. The first list, called the Chemicals of High Concern, is defined in Minnesota Statutes 2012, 116.9401:

- (e) "Chemical of high concern" means a chemical identified on the basis of credible scientific evidence by a state, federal, or international agency as being known or suspected with a high degree of probability to:
- (1) harm the normal development of a fetus or child or cause other developmental toxicity;
- (2) cause cancer, genetic damage, or reproductive harm;
- (3) disrupt the endocrine or hormone system;
- (4) damage the nervous system, immune system, or organs, or cause other systemic toxicity;
- (5) be persistent, bioaccumulative, and toxic; or
- (6) very persistent, and very bioaccumulative.

The statute notes in Minnesota Statutes 2012, 116.9402:

- (c) The department shall consider chemicals listed as a suspected carcinogen, reproductive or developmental toxicant, or as being persistent, bioaccumulative, and toxic, or very persistent and very bioaccumulative by a state, federal, or international agency. These agencies may include but are not limited to, the California Environmental Protection Agency, the Washington Department of Ecology, the United States Department of Health, the United States Environmental Protection Agency, the United Nation's World Health Organization, and European Parliament Annex XIV concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals.
- (d) The department may consider chemicals listed by another state as harmful to human health or the environment for possible inclusion in the list of chemicals of high concern.

MDH published the first Chemicals of High Concern list in July of 2010 on the MDH website at <a href="http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/">http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/</a>. The statute requires, in Minnesota Statutes 2012, 116.9402:

(b) The department must periodically review and revise the list of chemicals of high concern at least every three years. The department may add chemicals to the list if the chemical meets one or more of the criteria in section 116.9401, paragraph (e).

## **2013 Chemicals of High Concern Update**

MDH staff developing the Minnesota 2010 CHC list relied in part upon the state of Maine's original Chemicals of High Concern (CHC) list. The Maine statute is similar to that of Minnesota's statute and the original Maine CHC list was published in July of 2009, making it available before work on Minnesota's CHC list began. Maine's original CHC list contained a large number of chemicals (1739) and, given the relatively short time frame for the creation of Minnesota's CHC list, it was not possible to carefully review all chemicals on the Maine CHC list. This means that a large portion of the Maine CHC list was retained for the Minnesota 2010 CHC list (Minnesota Department of Health, 2010) without opportunity to verify that each chemical's profile adhered to the toxicity or persistence and bioaccumulative criteria adopted by MDH.

The update of the Minnesota CHC list involved reviewing each of the 1,756 chemicals on the 2010 list. The work on each chemical included a rapid evaluation of the data needed to meet the Minnesota requirements for a CHC. The result of this review was to either retain the chemical on the Minnesota CHC list or flag the chemical for additional, in-depth review. The same method was conducted while reviewing other authoritative lists and considering the inclusion of chemicals for the 2013 CHC list which were not on the 2010 CHC list.

For example, if a chemical was listed as persistent, bioaccumulative, and toxic (PBT) based on Maine's CHC list, staff found the papers or reports that Maine cited, read through the information, and decided whether the data met Minnesota's criteria for PBT (or other toxic endpoints). If staff determined that the criteria were met, the chemical stayed on the list. However if the data cited by Maine did not meet Minnesota's criteria or if no empirical data (measured or experimental data) could be found from the original source, then staff searched for and evaluated additional data, looking in data bases and the scientific literature for chemical data that might meet the Minnesota CHC criteria.

While the Maine CHC list was used as a starting point for the original Minnesota CHC list it was not the only source used. Other sources to identify potential chemicals for the 2010 CHC list included high production volume chemicals (HPV) named by the EPA; Priority Persistent Pollutants named by the Oregon Department of Environmental Quality; chemicals with non-cancer endpoints in the EPA Integrated Risk Information System (IRIS); Minnesota Health-Based Guidance for drinking water and air; and other sources named in Minnesota Statute 116.9402 (2012). Examples of sources used to evaluate a chemicals candidacy included but were not limited to:

- U.S. Department of Health and Human Services (HHS)
  - Agency for Toxic Substances and Disease Registry (ATSDR)
  - National Institutes of Health (NIH)
    - National Toxicology Program (NTP)
    - National Library of Medicine (NLM)
      - Hazardous Substances Data Bank (HSDB)
      - PubMed

#### ChemID

- U.S. Environmental Protection Agency
  - Office of Pollution Prevention and Toxics (OPPT)
  - Integrated Risk Information System (IRIS)
  - High Production Volume Challenge Program
    - Hazard Characterization
    - Risk-Based Prioritizations
- California Environmental Protection Agency (CA EPA)
  - Office of Environmental Health Hazard Assessment
    - California Proposition 65 (CAL Prop 65)
- World Health Organization (WHO)
  - International Agency for Research on Cancer (IARC)
- European Commission (EC)
  - o European chemical Substances Information System (ESIS)
- Organisation for Economic Co-operation and Development (OECD)
  - o eChemPortal
- Government of Canada
  - o Chemical Substances
  - Health Canada
  - Environment Canada

Chemicals with credible scientific data that met the CHC criteria were retained. If no data or inadequate data (not reliable or did not meet CHC criteria) was found then the chemical was flagged for exclusion from the 2013 CHC list.

During this round of review there was a particular focus on chemicals which were listed as PBT and had either the Canada persistent, bioaccumulative, and inherently toxic (PBiT) list or the Oslo-Paris (OSPAR) Commission as their source. Chemicals listed on the Canada PBiT list were more closely reviewed for two reasons: 1) Canada recently published more information about several of these chemicals under "The Challenge" program, allowing for a more in-depth review of this data set (Government of Canada, 2011). 2) Many chemicals on Canada's PBiT list were identified through modeled data which has since been updated.

MDH took the additional step of analyzing PBT data using an EPA model when it was apparent that the only data available for a chemical were modeled (estimated) PBT data. For example, MDH staff reviewed the information collected by Environment Canada for the PBiT chemicals and determined whether the PBT information was estimated or measured in a field or laboratory study. When only modeled (estimated) data were reported, staff validated the results by using the EPA's online PBT screening tool, PBT Profiler. This EPA-developed model predicts the potential for PBT activity based on the structure of the chemical. MDH used the most recently updated version of this EPA tool to check many of the Canada PBiT chemicals (U.S. Environmental Protection Agency, 2012). If PBT profiler indicated that a chemical was not expected to have PBT activity then the chemical was no longer considered PBT. The results of

the PBT model are predictive and are only used when experimental or measured data are not available.

The OSPAR Commission uses more inclusive PBT criteria than most other agencies or organizations, including the PBT criteria MDH uses from the EPA (Oslo-Paris Commission, 2002). Some chemicals classified by OSPAR as PBT would not be considered PBT by MDH. Table 1 provides an example of how the two sets of PBT criteria are different. Because of this discrepancy in PBT definitions, it was important to review chemicals with the OSPAR PBT source.

**Table 1: Comparison of PBT Criteria** 

PBT Criteria						
OSPAR MDH <sup>1</sup>						
Persistence (water and soil)	≥ 50 Days	60 – 180 Days				
Bioconcentration Factor (BCF)	≥ 500	1000 - 5000				
Toxicity	Acute²: ≤1.0 mg/L	Acute <sup>2</sup> : >1 - 10 mg/L				
	Chronic <sup>3</sup> : ≤0.1 mg/L	Chronic <sup>3</sup> : >0.1 - 10 mg/L				

<sup>1:</sup> MDH 'Moderate' values. Values are categorized as low, moderate, or high by MDH

Through this update and review process MDH identified 57 chemicals for exclusion from the 2013 CHC list (Appendix 1). A majority of these chemicals were excluded because modeled PBT data could not be validated. Chemicals were also removed because they were exempted by statute, new experimental data were available, or for other reasons (see appendix 1 for removal reasons).

The review of the CHC list includes considering if there are chemicals which should be added to the list. MDH monitors new toxicity literature as well as updates to state, national, and international agency lists. As a result MDH identified 32 chemicals to add to the 2013 CHC list (Appendix 2). These chemicals were found on authoritative state, national, and/or international chemical hazard lists and met the Minnesota CHC list requirements. The names of these organizations and the reviewed lists can be found in appendix 2.

After this review and update the total number of chemicals on the CHC list decreased from 1,756 in 2010 to 1,731 in 2013. The review and revision process of the CHC list (and PC list) is viewed as a dynamic and continuous process. There are around 260 chemicals on the 2013 CHC list that are flagged for further review in the coming year. New data and information will be considered for future list updates. Updates to the CHC list can be expected at least every three years as mandated in Minnesota Statutes 2012, 116.9402 (Minnesota Statutes 2012).

<sup>2:</sup> LC<sub>50</sub> or EC<sub>50</sub>

<sup>3:</sup> LOEC, NOEC, or ChV

#### **Work Plan**

The following section describes some of the future work activities MDH plans for updating the CHC and PC lists. Activities include thoroughly reviewing the PC list, considering new candidate PC chemicals, evaluating CHC chemicals which have been flagged for further review, and reevaluating the status of high production volume chemicals using information recently released by EPA. MDH will also be updating the chemical hazard guidelines it uses while assessing and prioritizing chemical toxicity.

#### **Priority Chemicals**

The 2009 Minnesota legislation called for the creation of a Priority Chemical (PC) list. This list is built from the CHC list and is defined in Minnesota Statutes 2012, 116.9403 (Minnesota Statutes 2012):

- (a) The department, after consultation with the agency, may designate a chemical of high concern as a priority chemical if the department finds that the chemical:
  - (1) Has been identified as a high-production volume chemical by the United States Environmental Protection Agency; and
  - (2) Meets any of the following criteria:
    - (i) The chemical has been found through biomonitoring to be present in human blood, including umbilical cord blood, breast milk, urine, or other bodily tissues or fluids;
    - (ii) The chemical has been found through sampling and analysis to be present in household dust, indoor air, drinking water, or elsewhere in the home environment; or
    - (iii) The chemical has been found through monitoring to be present in fish, wildlife, or the natural environment.
- (b) By February 1, 2011, the department shall publish a list of priority chemicals in the State Register and on the department's Internet Web site and shall update the published list whenever a new priority chemical is designated.

The original and current list of priority chemicals consist of the following nine chemicals:

- bisphenol A (BPA)
- butyl benzyl phthalate (BBP)
- dibutyl phthalate (DBP)
- di (2-ethylhexyl) phthalate (DEHP)
- decabromodiphenyl ether (decaBDE)
- hexabromocyclododecane (HBCD)
- lead

- cadmium
- formaldehyde

After creating the 2010 PC list, the TFK program nominated all nine chemicals to the MDH Contaminants of Emerging Concern (CEC) program. The CEC program reviews substances that have been released to, found in, or have the potential to enter Minnesota waters. The substances reviewed in this program also pose a real or perceived health threat, have new or changing health or exposure information, or do not have a Minnesota human health-based guidance value. Since their nominations, three of the nine priority chemicals have gone through a full CEC review. These three chemicals, BPA, BBP, and DBP, now have a Minnesota health-based guidance value for exposure from water ingestion. The CEC program is currently in the process of reviewing DEHP and the remaining priority chemicals are on the CEC nominations list for future consideration (for more information on the CEC program visit http://www.health.state.mn.us/cec).

MDH is in the process of reviewing other chemicals for PC list inclusion and will provide updates at a later time. Currently MDH is reviewing one candidate chemical and one candidate chemical group for addition to the PC list. The chemical is tris(1, 3-dichloro-2-propyl)phosphate (TDCPP) and the chemical group is nonylphenol including its ethoxylates (see Appendix 3 for CAS numbers). The term 'candidate chemical' is used purposefully to indicate that these chemicals are under consideration but have not at this time been added to the PC list. MDH is working with its state partners to assess the data for these candidate chemicals in a way that ensures consistency in priority chemical listing. MDH updates the PC list through publication on the MDH website at

http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/priority.html. Interested parties can monitor changes in the lists by visiting the web site and signing up to receive GovDelivery e-mail notices of new activities and postings.

#### **High Production Volume Chemicals**

A high production volume (HPV) chemical is a chemical that is manufactured or imported into the U.S. in quantities of one million pounds or more per year. Minnesota's statutory definition of a PC requires that the chemical be a HPV chemical named by the EPA. Because the PC list must be derived from the CHC list, HPV chemicals are reviewed for inclusion on the CHC list.

Under the U.S. Toxic Substances Control Act (TSCA), manufacturers or importers of a chemical in the quantity of 25,000 pounds or more per year must report to the EPA during what was called the Inventory Update Reporting (IUR) cycle, which occurred every four years. For the original publication of the 2010 CHC list, MDH retrieved IUR lists available from approximately the past 20 years, which included inventories for 1990, 1994, 1998, 2002, and 2006. Because HPV chemicals can vary over time and reviewing all the HPV chemicals of the past 20 years was impractical, MDH focused on chemicals that were listed on both the most recent inventory of the time, 2006, and on three of four remaining inventories from 1990-2002. After reviewing chemicals that fit these HPV criteria, as well as the health endpoint and hazard criteria of a CHC

chemical, 443 chemicals were designated as HPV on the 2010 CHC list. This HPV status is shown on the 2010 CHC list by an "x" in the HPV column.

In February of 2013 the EPA released the non-confidential 2012 Chemical Data Reporting (CDR) information (U.S. Environmental Protection Agency, 2013). The CDR replaces the IUR cycle and is the first update of chemical reporting on HPV information since the final IUR in 2006. The 2012 CDR provided information for 7,674 individual chemicals. MDH is in the process of reviewing the chemical information presented. MDH will also consider re-evaluating the HPV criteria established for the 2010 CHC list

While there is a large amount of information to analyze, MDH has confirmed that eight of the nine PCs are still reported as HPV chemicals in the 2012 CDR. One PC, HBCD, has production volume information withheld in the 2012 CDR. The annual production volume range was 10 million to 50 million pounds for each IUR cycle from 1994 through 2006. Without additional information, MDH will continue to consider HBCD to be a HPV chemical at this time. This means that none of the chemicals currently listed on the PC list will be removed as a result of a change in HPV status.

Moving forward, MDH will continue to review the 2012 CDR information to identify chemicals which meet the HPV criteria and may be considered for CHC and PC list inclusion(s). It is also possible that after reviewing the 2012 CDR data, chemicals currently listed on the 2013 CHC list as HPV will no longer meet the HPV criteria. When the review of this information is complete, MDH will update the HPV status (as indicated by an "x" in the HPV column) of any effected chemicals on the 2013 CHC list. This update will be posted on-line at the MDH website http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/

#### **Toxicity Criteria**

The statutory criteria states that a CHC needs to be "known or suspected with a high degree of probability" to cause adverse health effects, or be a chemical that is PBT, or be very persistent and very bioaccumulative (vPvB). Because "high degree of probability" was not defined and because time and resources to develop a full process for chemical evaluation were limited in 2010, MDH relied on work already done by the EPA for determining likelihood of a chemical to cause harm. MDH used hazard guidelines established by the EPA's Chemical Assessment and Management Program (ChAMP). The ChAMP program developed guidelines based on lowest-observed-adverse-effect-level (LOAEL) from mammalian toxicity studies which classified chemicals into categories of "High", "Moderate", or "Low" toxicity. More information about ChAMP and why the ChAMP criteria were initially used can be found in MDH's 2010 publication on CHC list methodology or from the EPA (Minnesota Department of Health, 2010; U.S. Environmental Protection Agency, 2010).

Because the ChAMP program is no longer active at the EPA, MDH decided it is prudent to use hazard guidelines of an updated and active program. After reviewing process documentation of programs within the EPA, it was determined that MDH would use the hazard guidelines

established by the Design for the Environment (DfE) Alternatives Assessment program which has a framework and use similar to ChAMP. EPA's DfE program works to identify safer chemical alternatives that reduce the risk to people and the environment while still performing well and being cost effective.

DfE has developed the Alternatives Assessment Criteria for Hazard Evaluation to be used as a tool for evaluating and comparing chemicals based on their human health and environmental hazards (U.S. Environmental Protection Agency, 2011). Similar to ChAMP, DfE identifies hazard categories of "High", "Moderate", or "Low". DfE also includes a "Very High" or "Very Low" hazard category for some of the endpoints.

The DfE Alternatives Assessment program created a rigorous and useful system for comparing chemicals based on hazard criteria that could be used by other agencies and organizations. In developing the criteria, DfE used authoritative sources such as the United Nation's Globally Harmonized System (GHS) for the Classification and Labeling of Chemicals and other EPA programs such as the Office of Pollution Prevention & Toxics (OPPT) criteria for HPV chemical categorization (U.S. Environmental Protection Agency, 2011). The DfE program gave careful consideration to selecting the toxicity value ranges which would categorize a chemical within different hazard groups. These ranges and the included health endpoints are generally agreed upon by other national and international organizations as being appropriate for chemical hazard identification.

For example, the included health endpoints are those from the Screening Information Data Set (SIDS) used by the international organization, OECD, for assessing chemical hazards. Some of these health endpoints include reproductive and developmental toxicity, neurotoxicity, repeated dose toxicity, aquatic toxicity, and acute mammalian toxicity. All health hazard endpoints that MDH used in chemical classification under the ChAMP program are included in the DfE Alternatives Assessment criteria.

An area of difference between ChAMP and DfE is that the range of values for a health endpoint which would classify a chemical as 'Moderate' or of a greater hazard category in ChAMP has expanded for a few of the endpoints in DfE. One example of this is within the aquatic toxicity endpoint. Under ChAMP a chemical would have a moderate hazard designation for acute aquatic toxicity with a lethal concentration 50 ( $LC_{50}$ ) or effective concentration 50 ( $EC_{50}$ ) of >1-10 mg/L. Under the DfE Alternatives Assessment a chemical would have a moderate hazard designation for acute aquatic toxicity with an  $LC_{50}$  or  $EC_{50}$  of >10-100 mg/L (see table 2). For other health endpoints, the toxicity values within a hazard category are exactly the same (e.g., repeated dose toxicity criteria). The document detailing the DfE Alternatives Assessment criteria for hazard evaluation can be found at EPA's website for DfE (U.S. Environmental Protection Agency, 2011).

**Table 2: Comparison of Hazard Category Ranges** 

Aquatic Toxicity Criteria						
	Acute LC <sub>50</sub> or EC <sub>50</sub> (mg/L)					
Guideline	Very High	High	Moderate	Low		
ChAMP	N/A	≤ 1.0	> 1.0 - 10	> 10		
DfE	< 1.0	1.0 - 10	> 10 - 100	> 100		

As previously mentioned, this transition from ChAMP to DfE uses a broader range of toxicity values for certain health endpoint hazard classifications. Therefore a CHC previously reviewed by MDH using the ChAMP criteria would be in either the same hazard classification level under DfE or could have increased in hazard classification (from moderate to high). This means that chemicals will not need to be reviewed for a decrease in hazard level classification. No chemicals currently on the 2013 CHC list will need to be removed due to the use of the DfE Alternatives Assessment hazard guidelines. The change of guidelines from ChAMP to DfE does potentially increase the pool of chemicals which could be considered "Moderate" toxicity for some of the health endpoints (e.g., acute aquatic toxicity and acute mammalian toxicity).

Moving forward MDH will use these DfE Alternatives Assessment criteria as part of the process to determine if chemicals pose a potential health hazard qualifying them for the CHC list. MDH will consider all relevant routes of exposure including oral, inhalation, and dermal and will use the Lowest Observed Adverse Effect Level/Lowest Observed Adverse Effect Concentration (LOAEL/LOAEC) or the No Observed Adverse Effect Level/No Observed Adverse Effect Concentration (NOAEL/NOAEC) identified in published peer reviewed studies and/or authoritative agency reports to determine hazard categories. In a review process which includes conflicting data, a weight of evidence approach will be applied in making the hazard determination. Chemicals which fall into hazard categories of "Moderate", "High", or "Very High" will be considered for CHC list inclusion.

## **States Legislative Updates**

In Minnesota, a bill that would have amended the current CHC and PC statutes was introduced in January of 2013. It would have added chemical reporting requirements for the Minnesota PC list similar to the reporting requirements of the state of Washington's Chemicals of High Concern to Children list (CHCC). However, this bill was not passed out of committee thus resulting in no change to the existing Minnesota statutes.

Two other bills involving chemicals on the PC list were passed into Minnesota law during the 2013 legislative session. The first bill (Senate File 357) bans the use of formaldehyde in certain products intended for children less than 8 years of age. The second bill (Senate File 379) prohibits the sale of baby food, infant formula, and toddler food stored in a container that contains bisphenol A. Copies of both bills can be found at the Minnesota State Legislature website by searching for the bill numbers in the 88<sup>th</sup> legislative session at <a href="https://www.revisor.mn.gov/bills/status">https://www.revisor.mn.gov/bills/status</a> search.php?body=Senate.

The remainder of this section provides some brief updates to the status of the chemical lists for both Maine and Washington. This update is provided because both Maine and Washington have legislation that is similar to the Minnesota statute and both states' lists were used as starting points in the original creation of Minnesota's 2010 CHC list. There is also a brief update on proposed chemical legislation in other states for 2013.

#### Maine

Maine's 2009 law was amended in June of 2011. The amendment changed Maine's system from a two tiered system of prioritization to a three tiered system of prioritization. The three tiers in increasing level of prioritization are:

- 1. The Chemicals of Concern (COC) list;
- 2. The Chemicals of High Concern (CHC) list; and
- 3. The Priority Chemical (PC) list.

The newly created COC list is similar to Maine's 2009 CHC list but removes already regulated pesticides and pharmaceuticals, leaving a more focused list of approximately 1400 chemicals.

Another requirement of the amended law was to publish between 10 and 70 chemicals on the new CHC list. This new CHC list was published in July 2012 and is a subset of the COC list. For a chemical on the Maine COC list to be promoted to the Maine CHC list there needs to be strong evidence that the chemical is a developmental or reproductive toxicant, an endocrine disruptor, or human carcinogen (COC list criteria) and the chemical must meet one or more of the following:

 Through biomonitoring studies to be present in human blood, human breast milk, human urine or other bodily tissues or fluids;

- Through sampling and analysis to be present in household dust, indoor air or drinking water or elsewhere in the home environment; or
- To have been added to or is present in a consumer product used or present in the home.

This newly created CHC list has 49 chemicals. From this list the commissioner of the Maine Department of Environmental Protection (Maine DEP) can designate one or more of the chemicals on the CHC list as a priority chemical (PC). When a chemical is promoted to the PC list the Maine DEP has the authority to:

- 1. Require manufacturers to disclose use of the PC in certain consumer product categories;
- 2. Require an alternatives assessment of the PC (the only state currently implementing this authority); and
- 3. Recommend a state-wide sale prohibition based on information gathered in the first two items.

Currently the two chemicals listed on the Maine PC list are bisphenol A and nonylphenol (including its ethoxylates). More information on all three of Maine's chemical lists can be found at the Maine DEP website <a href="http://www.maine.gov/dep/safechem/index.html">http://www.maine.gov/dep/safechem/index.html</a> (Maine Department of Environmental Protection, 2011).

#### Washington

The state of Washington also has similar legislation to the Minnesota statute, called the Children's Safe Product Act (CSPA). However, unlike Minnesota and Maine, Washington has only one chemical list called the Chemicals of High Concern for Children (CHCC). The current Washington CHCC list contains 66 chemicals. Chemicals on this list are considered toxic and have been found in children's products or have been found to be present in human tissue. These criteria for the CHCC list make it similar to Maine's new 2012 CHC list and to Minnesota's PC list. All nine of Minnesota's PCs can be found on the Washington CHCC list.

The major area in which Washington's chemical legislation differs from that of Minnesota and Maine is that Washington has a reporting requirement associated with the CHCC list and the information collected is available on-line (Washington Department of Ecology, 2009). Final rules were adopted in July of 2011 which required manufacturers of children's products to report to the Washington Department of Ecology if their products contained any of the 66 chemicals on the CHCC list. The reporting timeline is staggered based on the size of the manufacturer and the intended use of the children's product. Thus, the first deadline to report was in August of 2012 with each subsequent round of reporting following in six month increments. As of the writing of this report Washington has published results on the first two rounds of manufacturer product reporting.

Washington's CHCC list is dynamic, just as Minnesota's and Maine's lists are, and may change as new information becomes available. Recently, Washington has initiated the process of adding a new chemical, tris(1, 3-dichloro-2-propyl)phosphate (TDCPP), to the CHCC list and removing n-butanol from the CHCC list. Both of these changes were in response to petitions under the State's Administrative Procedures Act. These changes to the CHCC list will likely be completed by November 2013. More information on Washington's CSPA as well as reporting information and data can be found at the Washington Department of Ecology website <a href="http://www.ecy.wa.gov/programs/swfa/cspa/">http://www.ecy.wa.gov/programs/swfa/cspa/</a> (Washington Department of Ecology, 2009).

#### **Other States**

As of the writing of this report, the states of California, Oregon, and North Carolina have proposed similar legislation.

California's proposed legislation, titled Safer Consumer Products regulations, would create two lists of hazardous chemicals titled Candidate Chemicals (CC) and Chemicals of Concern (COC). The COC list would be built from the CC list and would represent chemicals with particular hazard traits combined with exposure concerns. This regulation would then create a consumer products list, titled Priority Products, for certain consumer products containing COCs. Consumer products listed on the Priority Products list would be subject to alternatives analyses to limit exposure to the COC(s) contained within them as well as a possible regulatory response. The alternatives analysis is the key portion of this regulation that would set it apart from other state chemical laws. More information can be found at the California Department of Toxic Substances Control, 2013).

Oregon's proposed legislation would create a list of "high priority chemicals of concern" for children's health. It would also require product reporting similar to that of the state of Washington's and includes a provision for eventual removal of high priority chemicals of concern from certain children's products. The House version of this bill was recently voted on and passed. More information can be found at the Oregon State Legislature website by searching for House Bill (HB) 3162 (Oregon State Legislature, 2013).

In North Carolina a bill has been proposed to study children's health and toxic chemicals. The bill (General Assembly of North Carolina House Bill 848) creates a joint legislative study committee to investigate ways to protect children from health impacts of potentially toxic chemicals which can be found in children's products. The study committee would also examine other federal and state laws which are intended to prevent children's exposure to toxic chemicals and determine a strategy for the state of North Carolina to identify "chemicals of high concern" and "priority chemicals". The North Carolina current definitions of "chemicals of high concern" and "priority chemicals" are similar to Minnesota's statutory definitions of the CHC and PC lists. The bill can be found at the North Carolina General Assembly website for House Bill (HB) 848 (North Carolina General Assembly, 2013-2014).

#### **Summary**

The review of the Minnesota CHC list is a continuous process which can result in chemical removals and additions to the list. This update to the Minnesota 2013 CHC list has resulted in 57 chemicals being excluded and 32 chemicals being added, changing the size of the CHC list from 1,756 chemicals in 2010 to 1,731 chemicals in 2013. Around 260 chemicals have been flagged for further review in the coming year.

Moving forward, MDH is in the process of reviewing one candidate chemical (tris(1, 3-dichloro-2-propyl)phosphate (TDCPP)) and one candidate chemical group (nonylphenol including its ethoxylates), for potential additions to the PC list. MDH is working with its state partners to assess the data for these candidate chemicals in a way that ensures consistency in priority chemical listing.

MDH is currently analyzing the EPA's recently released 2012 CDR data in order to review the HPV status of chemicals on the 2013 CHC list. Once this review is completed, HPV chemical status of CHCs will be updated on the MDH website at <a href="http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/">http://www.health.state.mn.us/divs/eh/hazardous/topics/toxfreekids/</a>

MDH is now using the EPA's DfE Alternatives Assessment Program chemical hazard criteria when assessing and prioritizing chemical toxicity (U.S. Environmental Protection Agency, 2011). This program incorporates nationally and internationally agreed upon hazard criteria and health hazard endpoints. It will replace the EPA ChAMP guidelines which MDH had previously used in developing the 2010 CHC list.

MDH continues to monitor the status of chemical hazard legislation in other states. In particular, chemical hazard legislation of the states of Maine and Washington are monitored closely because of similar bill language and mandates to that of Minnesota's. MDH monitors the status of chemical legislations across the country to understand the similar actions being taken by other states and to gather information on the direction of chemical policies within the United States.

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# Appendix 1

# **Chemicals Excluded from the 2013 CHC List: Reasons for Removal**

	Chemical Name	CAS Registry Number	Statute Exemption	Model Not Validated	Lacks Empirical Data	New Data
1	Testosterone and its esters	58-22-0	X <sup>1</sup>			
2	1,4-pentanediamine, N4-(6- chloro-2-methoxy-9-aziridinyl)- N1,N1-diethyl-, dihydrochloride	69-05-6	X <sup>1</sup>			
3	9H-Carbazole-3-carboxamide, N- (4-chlorophenyl)-2-hydroxy-	132-61-6		X <sup>4</sup>	х	
4	Diosgenin	512-04-9	$\chi^1$			
5	2-Naphthalenol, 1-[(2- nitrophenyl)azo]- (C.I. Pigment Orange 2)	6410-09-9				X <sup>5</sup>
6	1-Naphthalenesulfonic acid, 4-hydroxy-3-[[4'-[(1-hydroxy-5-sulfo-2-naphthalenyl)azo]-3,3'-dimethyl[1,1'-biphenyl]-4-yl]azo]-, disodium salt	6420-06-0		X <sup>4</sup>	Х	
7	Spiro[isobenzofuran-1(3H),9'- [9H]xanthen]-3-one, 2',4',5',7'- tetrabromo-3',6'-dihydroxy- (D & C Red no. 21)	15086-94-9				<b>X</b> <sup>5</sup>
8	1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7, 7,8,8,9,9,9-nonadecafluoro-, ammonium salt	17202-41-4		X <sub>e</sub>	Х	
9	Benzoxazolium, 2-[3-[5,6-dichloro-1-ethyl-1,3-dihydro-3-(3-sulfopropyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-3-ethyl-,hydroxide, inner salt	19163-98-5		X <sup>4</sup>	Х	
10	Propanenitrile, 3-[[4-[(5,6-dichloro-2-benzothiazolyl) azo]phenyl]ethylamino]-	25176-89-0				X <sup>5</sup>
11	1H-Benzimidazolium, 5,6-dichloro- 2-[3-(5,6-dichloro- 1,3-diethyl-1,3- dihydro-2H-benzimidazol-2- ylidene )-1-propenyl]-1-ethyl-3-(3- sulfobutyl)-, hydroxide, inner salt	28118-10-7		X <sup>4</sup>	х	

	Chemical Name	CAS Registry Number	Statute Exemption	Model Not Validated	Lacks Empirical Data	New Data
12	Benzenesulfonic acid, 4-[[3-[[2-hydroxy-3-[[(4-methoxyphenyl)amino]carbonyl]-1-naphthalenyl]azo] -4-methylbenzoyl]amino]-, calcium salt (2:1)	43035-18-3				X <sup>5</sup>
13	Ethanol, 2,2'-[[4-[(2,6-dibromo-4-nitrophenyl)azo]phenyl]imino]bis-, diacetate (ester) (EDD)	55619-18-6				<b>X</b> <sup>5</sup>
14	ß-Alanine, N-[4-[(2-bromo-6-chloro-4- nitrophenyl)azo]phenyl]-N-(3-methoxy-3-oxopropyl )-, methyl ester (Disperse Yellow Brown)	59709-38-5				X <sup>5</sup>
15	1-Propanaminium, 3-[[4-[(2,4-dimethylphenyl) amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]amino ]-N,N,N-trimethyl-, methyl sulfate	60352-98-9		X <sup>4</sup>	Х	
16	3-Pyridinecarbonitrile, 5-[(2-cyano-4-nitrophenyl) azo]-2-[(2-hydroxyethyl)amino]-4-methyl-6-[[3-(2 - phenoxyethoxy)propyl]amino]-	61799-13-1		X <sup>4</sup>	Х	
17	3-Pyridinecarbonitrile, 5-[[2-chloro-4-(methylsulfonyl) phenyl]azo]-4-methyl-2,6-bis[[3-(2-phenoxyethoxy)propyl]amino]-	63281-10-7		X <sup>4</sup>	Х	
18	3-Pyridinecarbonitrile, 5-[(2-cyano-4-nitrophenyl) azo]-6-[(2-hydroxyethyl)amino]-4-methyl-2-[[3-(2-phenoxyethoxy)propyl]amino]-(Disperse Red)	63833-78-3		X <sup>4</sup>	Х	
19	Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	67730-10-3	X <sup>2</sup>			
20	Glu-P-1 (2-Amino-6- methyldipyrido[1,2- a:3',2'- d]imidazole)	67730-11-4	X <sup>2</sup>			
21	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-, ammonium salt	68259-07-4		X <sup>6</sup>	Х	

	Chemical Name	CAS Registry Number	Statute Exemption	Model Not Validated	Lacks Empirical Data	New Data
22	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-6-[[4'- [(4-hydroxyphenyl)azo]-3,3'-dimethyl[1,1'-biphenyl]-4-yl]azo]-3-[(4-nitrophenyl)azo]-, disodium salt	68400-36-2		X <sup>4</sup>		
23	Propanenitrile, 3-[[2- (acetyloxy)ethyl][4- [(2-chloro-4- nitrophenyl)azo]-3- methylphenyl]amino ]-	68516-64-3		X <sup>4</sup>	Х	
24	Ethanamine, N-ethyl-N-hydroxy-, reaction products with hexamethylcyclotrisiloxane, silica and 1,1,1-trimethyl-N- (trimethylsilyl)silanamine	68583-58-4			Х	X <sup>5</sup>
25	Siloxanes and Silicones, Me 3,3,3- trifluoropropyl, Me vinyl, hydroxy- terminated	68952-02-3			Х	<b>X</b> <sup>5</sup>
26	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9		X <sup>6</sup>	х	
27	1-Naphthalenamine, 4-[(2-bromo- 4,6-dinitrophenyl) azo]-N-(3- methoxypropyl)-	70660-55-8		X <sup>4</sup>	Х	
28	Siloxanes and Silicones, di-Me, hydrogen-terminated	70900-21-9				X <sup>5</sup>
29	2-Naphthalenesulfonic acid, 5-[[4- (4-cyclohexylphenoxy) -2- sulfophenyl]azo]-6-[(2,6- dimethylphenyl)amino ]-4- hydroxy-, disodium salt	71720-89-3		X <sup>4</sup>	Х	
30	2-Naphthalenecarboxylic acid, 4- [(5-chloro-4-methyl-2-sulfophenyl) azo]-3-hydroxy-, magnesium salt (1:1)	71832-83-2				X <sup>5</sup>
31	Benzenesulfonic acid, 3-[[4-amino-9,10-dihydro-9,10-dioxo-3-[sulfo-4-(1,1,3,3-tetramethylbutyl)phenoxy]-1-anthracenyl]amino]-2,4,6-trimethyl-, disodium salt	72243-90-4				X <sup>5</sup>

	Chemical Name	CAS Registry Number	Statute Exemption	Model Not Validated	Lacks Empirical Data	New Data
32	1,3-Benzenedicarbonitrile, 2-[[4- [[2-(acetyloxy)ethyl] butylamino]- 2-methylphenyl]azo]-5-nitro-	72828-64-9		X <sup>4</sup>	Х	
33	1-Propanaminium, 3-[[9,10-dihydro-4-[(4-methylphenyl) amino]-9,10-dioxo-1-anthracenyl]amino] -N,N,N-trimethyl-, methyl sulfate	72828-93-4		X <sup>4</sup>	Х	
34	Benzenamine, 4-[(2,6-dichloro-4- nitrophenyl) azo]-N-(4- nitrophenyl)- (DNAN)	72927-94-7				X <sup>5</sup>
35	2,4,10-Trioxa-7-azaundecan-11-oic acid, 7-[4-[(2,6-dichloro-4-nitrophenyl) azo]-3-methylphenyl]-3-oxo-, methyl ester	73003-64-2		X <sup>4</sup>	х	
36	3-Pyridinecarbonitrile, 5-[(9,10-dihydro-9,10-dioxo- 1-anthracenyl)azo]-2,6-bis[(2-methoxyethyl)amino]-4-methyl-	73398-96-6		X <sup>4</sup>	x	
37	Benzenesulfonic acid, oxybis[(1,1,3,3-tetramethylbutyl)-, dipotassium salt	75908-83-7		X <sup>4</sup>	х	
38	Butanamide, 2-[[3,3'-dichloro-4'- [[1- [[(2- chlorophenyl)amino]carbonyl]-2- oxopropyl]azo ][1,1'-biphenyl]-4- yl]azo]-N-(2,4-dimethylphenyl)- 3- oxo-	78952-70-2		X <sup>4</sup>	х	
39	Benzenesulfonic acid, 2,2'-[(9,10-dihydro-5,8-dihydroxy-9,10-dioxo-1,4-anthracenediyl)diimino]bis [5-(1,1-dimethylethyl)-, disodium salt (ADIBSS)	83006-67-1		X <sup>4</sup>	x	
40	1,7-Naphthalenedisulfonic acid, 6- [[2-(4-cyclohexylphenoxy) phenyl]azo]-4-[[(2,4- dichlorophenoxy)acetyl]amino ]-5- hydroxy-, disodium salt	83027-51-4		X <sup>4</sup>	Х	

	Chemical Name	CAS Registry Number	Statute Exemption	Model Not Validated	Lacks Empirical Data	New Data
41	1,7-Naphthalenedisulfonic acid, 6- [[2-(2-cyclohexylphenoxy) phenyl]azo]-4-[[(2,4- dichlorophenoxy)acetyl]amino ]-5- hydroxy-, disodium salt	83027-52-5		X <sup>4</sup>	Х	
42	Benzonitrile, 3-bromo-2-[[4- (diethylamino) -2- methylphenyl]azo]-5-methyl-	83249-49-4		X <sup>4</sup>	X	
43	3-Pyridinecarbonitrile, 5-[[2-chloro-4-(phenylazo) phenyl]azo]-2,6-bis[(3-methoxypropyl)amino]-4-methyl -	85392-21-8		X <sup>4</sup>	x	
44	Benzenesulfonic acid, 5-amino- 2,4-dimethyl-, diazotized, coupled with diazotized 2,4-, 2,5-and 2,6- xylidine and 4-[(2,4- dihydroxyphenyl)azo]benzenesulf onic acid, sodium salts	90218-20-5		X <sub>6</sub>	х	
45	2,7-Naphthalenedisulfonic acid, 5- amino-4-hydroxy-3-[[6-sulfo- 4- [(4-sulfo-1-naphthalenyl)azo]-1- naphthalenyl ]azo]-, diazotized, coupled with diazotized 4- nitrobenzenamine and resorcinol, potassium sodium salts	90459-02-2		X <sub>6</sub>	х	
46	phenol, nonyl-, manuf. of, by- products from, high-boiling	90481-05-3		X <sup>6</sup>	Х	
47	[2,6'-Bibenzothiazole]-7-sulfonic acid, 2'-(4-aminophenyl)-6-methyl-, diazotized, coupled with diazotized 4-aminobenzenesulfonic acid and resorcinol, sodium salts	91696-90-1		X <sup>6</sup>	х	
48	Naphthalenesulfonic acid, reaction products with formaldehyde and hydroxybenzenesulfonic acid, ammonium salts	93384-84-0		X <sub>e</sub>	Х	
49	Phenol, 4-[[2-methoxy-4-[(2-methoxyphenyl] azo]-5-methylphenyl]azo]- (MMMP)	93805-00-6				X <sup>5</sup>

	Chemical Name	CAS Registry Number	Statute Exemption	Model Not Validated	Lacks Empirical Data	New Data
50	Fatty acids, tallow, hydrogenated, [6-[bis(methoxymethyl)amino] - 1,3,5-triazine-2,4-diyl]bis[[(methoxymethyl)imino]methylene] ester	103331-97-1	X³		х	
51	Fatty acids, tallow, hydrogenated, hexaesters with 2-[[[4-[[[2-hydroxy-1-(hydroxymethyl) ethoxy]methyl](hydroxymethyl)a mino]-6 - [(hydroxymethyl)(methoxymethyl) amino]-1,3,5-triazi n-2-yl](methoxymethyl)amino]methox y]-1,3-propanediol	103331-98-2	X³		X	
52	Formaldehyde, reaction products with branched nonylphenol and xylenol, ethoxylated	104376-69-4		X <sup>6</sup>	х	
53	Alkenes, C12-14, hydroformylation products, distn. residues, ethoxylated propoxylated, dihydrogen phosphates, sodium salts	113089-51-3		X <sub>e</sub>	х	
54	Formaldehyde, reaction products with sulfonated 1,1'-biphenyl and sulfonated terphenyl, sodium salts	113163-36-3		X <sup>6</sup>	х	
55	1-Naphthalenediazonium, 4-[[4- [(4-nitro-2-sulfophenyl) amino]phenyl]azo]-6-sulfo-, chloride, reaction products with formaldehyde and salicylic acid, ammonium sodium salts	114910-04-2		X <sup>6</sup>	х	
56	Alkenes, C12-14, hydroformylation products, distn. residues, ethoxylated, dihydrogen phosphates, sodium salts	119209-64-2		X <sub>e</sub>	Х	
57	9,10-Anthracenedione, 1,4-bis[(4-methylphenyl)amino]-, sulfonated, potassium salts (AMS)	125351-99-7				X <sup>5</sup>

<sup>1:</sup> Pharmaceutical

Pharmaceutcai
 Food
 Biologic
 EPA model (PBT Profiler) estimates not PBT
 Chemical investigated under Canada's Challenge Program. New data indicates not PBT
 Chemical structure can't be reliably modeled by EPA program for PBT estimation

# Appendix 2

# **Chemicals Added to the 2013 CHC List**

	Chemical Name	CAS Registry Number	Authoritative List	Toxicological Endpoint
1	triphenyltin (group)	No CAS	EU Category 1 Endocrine Disruptor <sup>1</sup>	Endocrine Disruptor
2	DDT, technical, p,p'DDT	50-29-3	EU Category 1 Endocrine Disruptor <sup>1</sup>	Endocrine Disruptor
3	methanol	67-56-1	Cal Prop 65 <sup>2</sup>	Developmental
4	Formamide	75-12-7	REACH SVHC <sup>3</sup>	Reproduction
5	Chloral	75-87-6	IARC <sup>4</sup> 2A	Carcinogenic
6	Trichloroacetic acid	76-03-9	IARC <sup>4</sup> 2B	Carcinogenic
7	1,3-Dichloro-2-propanol (1,3-DCP)	96-23-1	IARC <sup>4</sup> 2B	Carcinogenic
8	α-Methyl styrene (alpha- Methylstyrene)	98-83-9	IARC <sup>4</sup> 2B and Cal Prop 65 <sup>2</sup>	Carcinogenic
9	Methyl isobutyl ketone (MIBK)	108-10-1	IARC <sup>4</sup> 2B	Carcinogenic
10	Diethanolamine	111-42-2	IARC <sup>4</sup> 2B	Carcinogenic
11	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	REACH SVHC <sup>3</sup>	Reproduction
12	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	Reach SVHC <sup>3</sup>	Reproduction
13	Monomethylarsonic acid (methylarsonic acid; MMA)	124-58-3	IARC⁴ 2B	Carcinogenic
14	N,N-dimethylacetamide (DMAc)	127-19-5	Reach SVHC <sup>3</sup>	Reproduction
15	Chloral Hydrate	302-17-0	IARC <sup>4</sup> 2A	Carcinogenic
16	Tricosafluorododecanoic acid	307-55-1	REACH SVHC <sup>3</sup>	vPvB
17	Heptacosafluorotetradecanoic acid	376-06-7	REACH SVHC <sup>3</sup>	vPvB
18	1,2-Diethoxyethane	629-14-1	REACH SVHC <sup>3</sup>	Developmental/ Reproductive
19	2-Methylimidazole	693-98-1	IARC⁴ 2B	Carcinogenic
20	4-Methylimidazole	822-36-6	IARC⁴ 2B	Carcinogenic
21	tri-n-propyltin chloride	2279-76-7	EU Category 1 Endocrine Disruptor <sup>1</sup>	Endocrine Disruptor
22	Dibromoacetonitrile	3252-43-5	IARC⁴ 2B	Carcinogenic
23	1-nitropyrene	5522-43-0	IARC⁴ 2A; NTP⁵ Reasonably Anticipated	Carcinogenic
24	Lead dinitrate	10099-74-8	REACH SVHC <sup>3</sup>	Developmental

	Chemical Name	CAS Registry Number	Authoritative List	Toxicological Endpoint
25	Asbestos (non-asbestiform Actinolite)	13768-00-8	IARC <sup>4</sup> 1	Carcinogenic
26	Asbestos (non-asbestiform Tremolite)	14567-73-8	IARC⁴ 1	Carcinogenic
27	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	Reach SVHC <sup>3</sup>	Carcinogenic
28	3,4',5-Trichlorobiphenyl	53555-66-1	EU Category 1 Endocrine Disruptor <sup>1</sup>	Endocrine Disruptor
29	beta-Triglycidyl isocyanurate (β- TGIC)	59653-74-6	REACH SVHC <sup>3</sup>	Mutagenic
30	Pentacosafluorotridecanoic acid	72629-94-8	REACH SVHC <sup>3</sup>	vPvB
31	1,3-Dinitropyrene	75321-20-9	IARC <sup>4</sup> 2B and Cal Prop 65 <sup>2</sup>	Carcinogenic
32	Microcystin-LR	101043-37-2	IARC⁴ 2B; MN HRL <sup>6</sup>	Carcinogenic; Liver Toxicity
	Boric Acid*	11113-50-1	REACH SVHC <sup>3</sup>	Reproduction

<sup>1:</sup> European Union Category 1 Endocrine Disruptor (EU Category 1 Endocrine Disruptor)

# **Appendix 3**

### **Candidate Chemicals Under Consideration for the PC list**

	Chemical Name	CAS Registry Number
1	tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8
	Phenol, 4-nonyl-, branched	84852-15-3
2	Polyethylene glycol nonlyphenyl ether*	9016-45-9
	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega- hydroxy-, branched*	127087-87-0

<sup>\*:</sup> These two chemicals are both nonylphenol ethoxylates

<sup>2:</sup> California Proposition 65 List (Cal Prop 65)

<sup>3:</sup> Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH), Substances of Very High Concern (SVHC)

<sup>4:</sup> International Agency for Research on Cancer (IARC)

<sup>5:</sup> National Toxicology Program (NTP)

<sup>6:</sup> Minnesota Health Risk Limit (MN HRL)

<sup>\*:</sup> Adding 2<sup>nd</sup> CAS Number (11113-50-1) to Boric Acid entry. Already on CHC list under CAS Number 10043-35-3

			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Marine (CA Dece CE LADO IDIO		
				Maine (CA Prop 65; IARC; IRIS;		.,
		Cancer, Respiratory system, Eye		NTP 11th ROC); WA Appen1; WA CHCC; Minnesota HRV;	Wood and textiles finishes,	x
50-00-0	Formaldehyde	irritant		Minnesota RAA	disinfection, tissue preservative	
50-00-0	Formaldehyde (in water)	Gastrointestinal system		Minnesota HRL	Contaminant	
30-00-0	Torrialderryde (iii water)	Gastronitestinal system		EU Category 1 Endocrine	Contaminant	
50-29-3	DDT, technical, p,p'DDT	Endocrine system		disruptor	pesticide	
30-23-3	DDT, technical, p,p DDT	Endocrine system		distuptor	pesticide	
				Maine (CA Prop 65; IARC; IRIS;		
				NTP 11th ROC; OSPAR		
				Chemicals of Concern; EU		
			х	Endocrine Disruptor; EPA Final		
				PBT Rule for TRI; EPA Priority		
				PBT); Oregon P3 List; WA	Combustion by product,	
50-32-8	Benzo(a)pyrene	Cancer, Endocrine system		Appen1; Minnesota HRV	research	
		·			Dyes and diaminophenol mfg,	
					wood preservation, pesticide,	
51-28-5	2,4-Dinitrophenol	Eyes		WA Appen1; Minnesota HRL	pharmaceutical	
				Maine (CA Prop 65; IARC); WA		
51-75-2	Nitrogen mustard (Mechlorethamine)	Cancer, Development		Appen1	Warfare agent, research	
					Preparation of amino resins,	
				Maine (CA Prop 65; IARC; NTP	solubilizer, chemical	
51-79-6	Urethane (Ethyl carbamate)	Cancer, Development		11th ROC); WA Appen1	intermediate	
				Maine (CA Prop 65; IARC; IRIS;		
			x	NTP 11th ROC; EPA Final PBT		
				Rule for TRI; WA PBT List;		
50 <b>7</b> 0 0	S. ( )			OSPAR Chemicals of Concern);		
53-70-3	Dibenzo(a,h)anthracene	Cancer		WA Appen1; Oregon P3 List	Research	
F2 06 2	2 Acetulaminofluorene	Concer		Maine (CA Prop 65; NTP 11th	Docoorch	
53-96-3	2-Acetylaminofluorene	Cancer		ROC); WA Appen1 Maine (CA Prop 65); WA	Research	
54-62-6	Aminopterin	Development, Reproduction		Appen1	Pharmaceutical, pesticide	
34-02-0	Ammoptem	Development, Reproduction		Whhelit	i narmaceuticai, pesticide	
				Maine (CA Prop 65; IARC; IRIS;	Lubricant, antioxidant, plastics	
55-18-5	N-Nitrosodiethylamine	Cancer		NTP 11th ROC); WA Appen1	stabilizer	
200					Explosive, rocket propellant,	
55-63-0	Nitroglycerin	Blood		HSDB	pharmaceutical	х
	Nitrogen mustard hydrochloride			Maine (CA Prop 65; NTP 11th	Pharmaceutical, sterilant mfg,	
55-86-7	(Mechlorethamine hydrochloride)	Cancer, Development		ROC); WA Appen1	cross linking agent	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
56-23-5	Carbon tetrachloride	Cancer			Pesticide (EPA reg. cancelled), fire reduction, solvent, fumigant, dry cleaning	х
56-35-9	Bis(tributyltin)oxide (TBTO)	Endocrine system	х	Maine (EU Endocrine Disruptor; EU PBT List; OSPAR Chemicals of Concern; REACH Substances of Very High Concern; Canada PBiT); WA Appen1; Oregon P3 List	Antimicrobials, slimasides	
		,	х	Maine (CA Prop 65; EU Endocrine Disruptor; EPA Final PBT Rule for TRI; WA PBT List; OSPAR Chemicals of Concern);		
56-49-5	3-Methylcholanthrene  Diethylstilbestrol	Cancer, Endocrine system  Cancer, Development, Endocrine system		WA Appen1 Maine (CA Prop 65; IARC; NTP 11th ROC; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	Research  Research, pharmaceutical	
56-55-3	Benzo(a)anthracene	Cancer	х	Maine (CA Prop 65; IRIS; NTP 11th ROC; EPA Final PBT Rule for TRI; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	Research	
56-93-9	Trimethylbenzylammonium chloride 2,4,11,13- Tetraazatetradecanediimidamide, N,N"-	Mortality		NTP	Solvent, dye assistant, phase transfer catalyst	x
56-95-1	bis(4-chlorophenyl)-3,12-diimino-, diacetate		Х	Maine (Canada PBiT); WA Appen1	Biocide	
57-12-5	Cyanide, free	Nervous system, Thyroid, Weight Loss		HRL	Electroplating, chemicals mfg, naturally occurring in some foods	
57-14-7	1,1-Dimethylhydrazine (UDMH)	Cancer			Rocket fuel or propellant	
57-24-9 57-57-8	Strychnine beta-Propiolactone	Nervous system  Cancer		HSDB; IRIS; WA Appen1 Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Pesticide, pharmaceutical  Chemical mfg, disinfectant	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
		······································		554.155(5)	Coo champic(o) or class	or ryears,
				Maine (CA Prop 65; OSPAR		
				Chemicals of Concern; EU		
			x	Endocrine Disruptor; EPA Final		
				PBT Rule for TRI; TRI PBT		
				Chemical List; EPA Priority PBT;		
57-74-9	Chlordane	Cancer, Endocrine system		WA PBT List); WA Appen1	Pesticide (EPA reg. cancelled)	
				Maine (CA Prop 65; EU		
				Endocrine Disruptor; EPA Final		
			х	PBT Rule for TRI; OSPAR		
				Chemicals of Concern); WA		
57-97-6	7,12-Dimethylbenz(a)anthracene	Cancer, Endocrine system		Appen1	Research, pharmaceutical	
				Maine (CA Prop 65; Canada		
				PBiT; NTP 11th ROC; OSPAR		
				Chemicals of Concern; EU		
			x	Endocrine Disruptor; NWM		
				Priority Chemicals; OSPAR		
	Hexachlorocyclohexane, gamma-,			Chemicals of Concern); WA		
58-89-9	(Lindane)	Cancer; Endocrine system		Appen1; Oregon P3 List	Antimicrobial	
58-90-2	2,3,4,6-Tetrachlorophenol	Liver		IRIS; WA Appen1	Pesticide, preservative	
50.05.0				Maine (CA Prop 65); WA		
59-05-2	Methotrexate	Development		Appen1	pharmaceutical, insect sterilant	
50.07.0	All the Comment	6		Maine (CA Prop 65); WA	endeddyt or observer with	
59-87-0	Nitrofurazone	Cancer		Appen1	Food additive, pharmaceutical	
50.00.3	NI NEL CONTROL DE LA CONTROL D	Connection		Maine (CA Prop 65; NTP 11th		
59-89-2	N-Nitrosomorpholine	Cancer		ROC); WA Appen1	Solvent, chemical synthesis	
60-09-3	p-Aminoazobenzene (Aniline Yellow)	Concor		Maine (CA Prop 65); WA Appen1	Dura	
60-09-3	p-Aminoazoberizerie (Aminie Fellow)	Cancer		Maine (CA Prop 65; NTP 11th	Dye	
60-11-7	4 Dimothylaminoazohonzono	Cancor			nH indicators snot tasts	
00-11-7	4-Dimethylaminoazobenzene	Cancer		ROC); WA Appen1	pH indicators - spot tests	
		Eyes, Cardiovascular system, Liver,			Dyestuff, chemical	x
60-24-2	2-Mercaptoethanol	Skin		OECD - SIDS/SIAR	intermediate, chemical mfg	*
00 Z + Z	2 Mercuptoethanor	J. I.		Maine (CA Prop 65); WA	Solvent, plasticizer, stabilizer,	
60-35-5	Acetamide	Cancer		Appen1	humectant	
60-51-5	Dimethoate	Nervous system		IRIS; WA Appen1	Pesticide	
				Maine (CA Prop 65); WA	Cyanide free silver plating,	
60-56-0	Methimazole	Development		Appen1	pharmaceutical	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
		,	, ,	, ,		, ,
				Maine (CA Prop 65; IRIS; EPA		
			X	Priority PBT; WA PBT List;		
		Cancer, Development, Endocrine	^	OSPAR Chemicals of Concern);		
		system, Immune system, Liver,		WA Appen1; Oregon P3 List;		
60-57-1	Dieldrin	Nervous system		Minnesota HRL	Pesticide (not EPA registered)	
				Maine (CA Prop 65; NTP 11th		
				ROC; EU Endocrine Disruptor);		
61-82-5	Amitrole	Cancer, Endocrine system		WA Appen1	Pesticide	
62-38-4	Phenylmercuric Acetate	Kidney		IRIS; WA Appen1	Preservative	
				Maine (CA Prop 65; IARC; NTP	Pharmaceutical, stabilizer in	
62-44-2	Phenacetin	Cancer		11th ROC); WA Appen1	hair bleach	
				Maine (CA Prop 65; NTP 11th	Research, catalyst in chemical	
62-50-0	Ethyl methanesulfonate	Cancer		ROC); WA Appen1	mfg	
				(0. 5	Chemical mfg, (polyurethane	x
62.52.2	A a this a	Conservation		Maine (CA Prop 65; IRIS); WA	foam, varnishes, perfumes,	
62-53-3	Aniline	Cancer		Appen1; WA CHCC	printing inks)	
				Maine (CA Prop 65; NTP 11th	Inorganic chemical analysis,	
62-55-5	Thioacetamide	Cancer		ROC); WA Appen1	motor fuel stabilizer	
02-33-3	Tilloacetaillide	Caricer		NOC), WA Appeni	Fire retardant, hair dyes, boiler	
				Maine (CA Prop 65; NTP 11th	water treatment, photography	
62-56-6	Thiourea	Cancer		ROC); WA Appen1; WA CHCC	chemicals	
02 30 0	Tilloured	Carreer		Nocj, WA Appenii, WA circe	Chemicals	
				Maine (CA Prop 65; IRIS); WA		
62-73-7	DDVP (Dichlorvos)	Cancer, Nervous system		Appen1; Minnesota HRV	Pesticide	
	(2.0			Maine (CA Prop 65); WA		
62-74-8	Sodium fluoroacetate	Reproduction		Appen1	Pesticide	
		·				
				Maine (CA Prop 65; IARC; IRIS;		
62-75-9	N-Nitrosodimethylamine	Cancer		NTP 11th ROC); WA Appen1	Industrial solvent, antioxidant	
	·			Maine (EU Endocrine Disruptor);		
63-25-2	Carbaryl	Endocrine system		WA Appen1	Pesticide	
				Maine (CA Prop 65; IARC); WA		
64-17-5	Ethanol	Cancer, Development		Appen1	Solvent, fuel	x
					Pesticide, acidulating agent in	
64-18-6	Formic acid	Eyes		HSDB; WA Appen1	dyeing, solvent	Х
				Maine (CA Prop 65; IARC; NTP	Ethylating agent, chemical	
64-67-5	Diethyl sulfate	Cancer		11th ROC); WA Appen1	intermediate in dye mfg	Х
				Maine (CA Prop 65); WA		
64-86-8	Colchicine	Development, Reproduction		Appen1	Pharmaceutical, research	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS ITAMIDEI	Chemical Hame	ricular enapolita(s)	Dioaccamalative (vi vb)	Maine (CA Prop 65; IARC; NTP	OSC CAUTIFIC(S) OF Class	or 4 years)
66-27-3	Methyl methanesulfonate	Cancer		11th ROC); WA Appen1	Research, catalyst	
	·			Maine (CA Prop 65); WA	,	
66-76-2	Dicumarol	Development		Appen1	Pesticide, pharmaceutical	
				Maine (CA Prop 65); WA	Pesticide (EPA reg. cancelled),	
66-81-9	Cycloheximide	Development		Appen1	pharmaceutical	
				Cal Prop 65	solvent, antifreeze, fuel,	
67-56-1	methanol	Development		(reproductive/developmental)	chemical production	
				AASS (CA Base CE IDIC AIT)		
		Caraca Barralananan Innanana		Maine (CA Prop 65; IRIS; NTP		х
67-66-3	Chloroform	Cancer, Development, Immune system, Reproduction		11th ROC); WA Appen1; Minnesota HRL; Minnesota HRV	Solvent	
07-00-3	CHIOLOGOTHI	system, Reproduction		IVIIIIIesota HKL, IVIIIIIIesota HKV	Solvent	
				Maine (CA Prop 65; NTP 11th		
			x	ROC; NWM Priority Chemicals;		
				OSPAR Chemicals of Concern);	Organic chemical synthesis,	
67-72-1	Hexachloroethane	Cancer		WA Appen1	pyrotechnics, solvent	
				OECD - SIDS/SIAR; WA Appen1;	Solvents, chemical	
68-12-2	N,N-dimethylformamide	Liver		Minnesota HRV	intermediates, paints	х
				Maine (CA Prop 65; IARC; NTP		
70-25-7	N-Methyl-N'-nitro-N-nitrosoguanidine	Cancer		11th ROC); WA Appen1	Research	
				Maine (OSPAR Chemicals of		
	phenol, 2,2'-methylenebis[3,4,6-		x	Concern); WA Appen1; Oregon	Antibacterial, disinfectant,	
70-30-4	trichloro-			P3 List	pesticide (EPA reg. cancelled)	
				Maine (CA Prop 65; IARC; EU		
		Blood, Cancer, Development,		Carcinogen; IRIS; NTP 11th ROC); WA Appen1; WA CHCC;	Inks, rubbers, lacquers, paint	x
71-43-2	Benzene	Immune system, Reproduction		Minnesota HRL; Minnesota HRV	remover, gasoline additive	
71 43 2	Benzene	minute system, reproduction		Willingsota Fixe, Willingsota Fixe	remover, gasoniie additive	
				Maine (CA Prop 65; WA PBT List;		
			x	OSPAR Chemicals of Concern);		
72-20-8	Endrin	Development		WA Appen1; Oregon P3 List	Pesticide (EPA reg. cancelled)	
				Maine ( EU Endocrine Disruptor;		
			X	EPA Final PBT Rule for TRI; TRI		
			^	PBT Chemical List; NWM Priority		
				Chemicals; OSPAR Chemicals of		
72.42.5	A death according to	e de de como de		Concern; OSPAR Chemicals for	Destinists (FDA	
72-43-5	Methoxychlor	Endocrine system		Priority Action); WA Appen1	Pesticide (EPA reg. cancelled)	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
C/15 Humber	Chemical rame	Treates enaposite(s)	Dioaceamaiante (tr tb)	Maine (CA Prop 65; IRIS; EU	Ose example(s) of class	or 4 years)
				Endocrine Disruptor; OSPAR		
			x	Chemicals of Concern); WA		
	benzene, 1,1'-(2,2-		,	Appen1; Oregon P3 List;		
72-54-8	dichloroethylidene)bis[4-chloro-	Cancer, Endocrine system		Minnesota HRL	Pesticide (EPA reg. cancelled)	
723.0		Cancer, Enacernic System		Maine (CA Prop 65; IRIS; EU	r conside (El 71 eg) camelled	
				Endocrine Disruptor; OSPAR		
			x	Chemicals of Concern); WA		
	benzene, 1,1'-	Cancer, Endocrine system,		Appen1; Oregon P3 List;		
72-55-9	(dichloroethenylidene)bis[4-chloro-	Reproduction		Minnesota HRL	Pesticide contaminant	
. =				Maine (CA Prop 65); WA		
72-57-1	Trypan blue (commercial grade)	Cancer		Appen1	Dye, pharmaceutical	
	Methyl bromide, as a structural	Development, Nervous system,		Maine (CA Prop 65); WA	Refrigerant, fire extinguisher,	
74-83-9	fumigant	Respiratory		Appen1; Minnesota HRV	fumigant	х
74-83-9	Methyl bromide, in water	Gastrointestinal system		WA Appen1; Minnesota HRL	Contaminant	х
		,		, ,	Pharmaceutical, foaming agent	
				Maine (CA Prop 65); WA	in plastics industry, catalyst,	x
74-87-3	Methyl chloride	Development		Appen1	chemical mfg	
		·		Maine (CA Prop 65); WA	Ethylating agent, microscopy,	
74-88-4	Methyl iodide	Cancer		Appen1	etching	
					Pesticide (EPA reg. cancelled),	х
74-90-8	Hydrogen cyanide	Endocrine system, Nervous system		WA Appen1; Minnesota HRV	electroplating, metal mfg	
					Gas odorant, chemical	v
74-93-1	Methanethiol (Methyl mercaptan)	Body weight, Blood, Spleen		OECD - SIDS/SIAR	manufacturing	х
74-95-3	Dibromomethane	Kidney, Liver		HSDB	Solvent, gauge fluid	х
				Maine (CA Prop 65); WA		x
74-96-4	Bromoethane	Cancer		Appen1	Ethylating agent, chemical mfg	^
				Maine (CA Prop 65); WA	Chemical intermediate,	
		Development, Endocrine system,		Appen1; Minnesota RAA;	refrigerant, solvents,	х
75-00-3	Chloroethane (Ethyl chloride)	Nervous System, Reproduction		Minnesota HRV	pharmaceutical	
				Maine (CA Prop 65; IARC; EU		
				Carcinogen; IRIS; NTP 11th		х
				ROC); WA Appen1; WA CHCC;	Plastics, organic chemical	
75-01-4	Vinyl chloride	Cancer, Liver		Minnesota HRL; Minnesota HRV	synthesis	
				Maine (CA Prop 65; IARC; NTP		x
75-02-5	Vinyl fluoride	Cancer		11th ROC); WA Appen1	Production of polyvinyl fluoride	
						x
75-05-8	Acetonitrile	Mortality		WA Appen1; Minnesota HRV	Pesticides mfg, rubber, dyes	



			Descriptors Biography deline			
			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Marine (CA Dece CE IDIC AITD	O consideration of a continuous	
				Maine (CA Prop 65; IRIS; NTP	Organic chemical synthesis,	x
75-07-0	Acetaldehyde	Consor		11th ROC); WA Appen1; WA CHCC; Minnesota HRV	flavoring, chemical intermediate	
75-07-0	Acetaidenyde	Cancer		CHCC; Millinesota HRV	Intermediate	
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC); WA Appen1; WA		x
				CHCC; Minnesota HRL-EPA-MCL;		^
75-09-2	Methylene Chloride (Dichloromethane)	Cancer, Liver, Nervous system		Minnesota HRV	Solvent, chemical intermediate	
73 03 2	Wietrylene emonae (Biemoromethane)	Cancer, Erver, Nervous system		Timile Sota Titt	chemical intermediate, sofener	
				REACH Substances of Very High	(paper, glue), pharmaceutical	
75-12-7	Formamide	Reproduction		Concern	solvent	
73 12 7	Torridinac	neproduction		Concern	Solveni	
				Maine (CA Prop 65); WA		
		Development, Nervous system,		Appen1; WA CHCC; Minnesota	Pesticide (EPA reg. cancelled),	х
75-15-0	Carbon disulfide	Reproduction		HRL; Minnesota HRV	rayon mfg	
		Cancer, Development,		Maine (CA Prop 65; IARC; NTP	Chemical intermediate,	
75-21-8	Ethylene oxide	Reproduction		11th ROC); WA Appen1	fumigant	Х
				Maine (CA Prop 65; IRIS); WA	Solvent, intermediate in	
75-25-2	Bromoform	Cancer		Appen1; Minnesota HRL	chemical mfg, reagent	
				Maine (CA Prop 65; EU	Synthesis of dyes,	
				Reproductive Toxicant; NTP	pharmaceuticals, organic	
75-26-3	2-Bromopropane	Reproduction		CERHR); WA Appen1	chemicals	
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC); WA Appen1;		
75-27-4	Bromodichloromethane	Cancer		Minnesota HRL	Reagent, organic synthesis	
	Isobutane (containing 0.1 % butadiene			l , ,		x
75-28-5	(203-450-8))	Cancer		Maine (EU Carcinogen)	Propellant, gasoline	
75 24 2	1 1 Diahlamathana	Common Nomenton		Maine (CA Prop 65); WA	Solvent, extracting agent,	
75-34-3	1,1-Dichloroethane	Cancer, Nervous system		Appen1; Minnesota RAA	fumigant	
	1,1-Dichloroethylene (Vinylidene				Co-monomer in production of coatings, films, resins; organic	
75-35-4	chloride)	Liver		WA Appen1; Minnesota HBV	synthesis	
75-35-4	chioride)	Livei		VVA Appelia, Willinesota HBV	Polymeric isocyanides mfg,	
75-44-5	Phosgene	Respiratory system		WA Appen1; Minnesota HRV	pesticide mfg	х
				Maine (CA Prop 65; NTP 11th		
			x	ROC; NWM Priority Chemicals;	Rocket and racing fuel, solvents	
				OSPAR Chemicals of Concern);	for vinyls, epoxies, polyamides	
75-52-5	methane, nitro-	Cancer		WA Appen1	and acrylic polymers	



			Danistant Discount dation			
			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; NTP 11th	Polymer in textile and paper	
75-55-8	2-Methylaziridine (Propyleneimine)	Cancer		ROC); WA Appen1	industry	
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC); WA Appen1;		х
75-56-9	Propylene oxide	Cancer		Minnesota HRV	Pesticide, disinfectant	
		Bladder, Cardiovascular system,			Semiconductor and electronics	x
75-59-2	Tetramethylammonium hydroxide	Eyes, Skin		OECD - SIDS/SIAR	industry	^
				Maine (CA Prop 65); WA	Desiccant, ripener, defoliant,	
75-60-5	Cacodylic acid	Cancer		Appen1	pharmaceutical	
				Maine (EU PBT List; OSPAR		
			x	Chemicals of Concern); WA		
75-74-1	Tetramethyllead			Appen1	Anti-knock additive for gasoline	
75-87-6	Chloral	Cancer		IARC 2A	chemical intermediate	
75-99-0	Dalapon, sodium salt	Kidney		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
					and an artist at the detailer	
76.02.0	Trible and a street	Constant		14 DC 2D	solvent, selective herbicide,	
76-03-9	Trichloroacetic acid	Cancer		IARC 2B	surface treatment of metals	
				Maine (CA Dran CF, IDIC, FDA		
				Maine (CA Prop 65; IRIS; EPA Final PBT Rule for TRI; TRI PBT		
				Chemical List; NWM Priority		
			x	Chemicals; WA PBT List; OSPAR		
				Chemicals of Concern); WA		
				Appen1; Oregon P3 List;		
76-44-8	Heptachlor	Cancer, Development		Minnesota HRL	Pesticide (EPA reg. cancelled)	
70-44-8	Phenol, 4,4'-(3H-2,1-benzoxathiol- 3-	Cancer, Development		Willinesota Fine	resticide (Li A reg. caricelled)	
	ylidene)bis[2,6-dibromo-3-methyl-, S,S-		X	Maine (Canada PBiT); WA		
76-60-8	dioxide		^	Appen1	pH indicator	
				Maine (CA Prop 65; OSPAR		
			x	Chemicals of High Concern); WA		
76-87-9	stannane, hydroxytriphenyl-	Cancer, Development		Appen1	Pesticide, antifouling	
				Maine (CA Prop 65; NTP 11th		
				ROC; EU Endocrine Disruptor);	Acid base indicator, reagent,	
77-09-8	Phenolphthalein	Cancer, Endocrine system		WA Appen1	pharmaceutical	
	2,2-Bis(4-hydroxyphenyl)-n-butan =			Maine (EU Endocrine Disruptor);		
77-40-7	Bisphenol B	Endocrine system		WA Appen1	Plastic component	
				ATSDR; HSDB; IRIS; NTP; WA	Flame retardants mfg,	х
77-47-4	Hexachlorocyclopentadiene	Kidney, Liver, Respiratory system		Appen1	pesticide (EPA reg. cancelled)	
			X	Maine (Canada PBiT); WA		
77-52-1	Urs-12-en-28-oic acid, 3-hydroxy-, (3ß)-		^	Appen1		



79-10-7 Acrylic acid Respiratory system WA Appen1; Minnesota HRV based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Chemical intermediate for acrylates, plastics mfg, water x based paints  Crop protection chemicals, carboxymethylcellulose, paints,							
CAS Number Chemical Name Adrenal glands, Eyes, Kidney, Liver, Skin Adrenal GCA Prop 65; MAC, Appent Adapterial Minimostal Hit, Adapt				Persistent, Bioaccumulative,			
CAS Number Chemical Name Health endpoint(s) Bioaccumulative (vPvB) Source(s) Use example(s) or class of 4 years) <sup>1,2</sup> Afrenal glands, Eyes, Kidney, Liver, Sidney, Liver,							
Adrenal glands, Eyes, Kidney, Liver, Skin HRV  77.73.6 Dicyclopentadiene  Skin HRV  Adheric (CA Prop 65; IAC, IRIS, IRI				Persistent, very			•
Trichloroethylene   Skin	CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
Trichloroethylene   Skin							
Maine (CA Prop 65; IARC; IRIS; NTP 111 MCQC; WA Appen1 Pertoide (Titlufors) Pertoide (1,1,4-4 retramethyl-1,4-butanethyl-1,4-b					' '	•	х
Maine (CA Prop 65; IARC, IRIS; NP 11th ROC; WA Appen 1 fabric softeners)   X   X   X   X   X   X   X   X   X	77-73-6	Dicyclopentadiene	Skin		HRV		
Trickloroethylene   Cancer   NP111th ROC ; WA Appent   Fabric softeners)   Trickloroethylene   Cancer, Immune system   Maine (CA Prop 65); IAAC, Wather (C							
Red	1	D I If				- : - :	Х
Name	77-78-1	Dimethyl sulfate	Cancer		· · · · · · · · · · · · · · · · · · ·	fabric softeners)	
Nerybox oxide (Tribufos)   Nervous system   Nerybox oxide (Tribufos)   Nervous system   Nerybox oxide (1,1,4,4 termethyl+1,4-butanedyl)bis(1,1-dimethylethyl)   x   Appen1   Namine (Canada PBiT); WA   Appen1   Number mfg   x	70.00.0			x	· '		x
Peroxide, (1,1,4,4-tetramethyl-1,4-butanedlylibis(1,1-dimethylethyl)  (Narox)    Maine (CA Prop 65; NTP 11th Rober mfg   Nather mfg   N		<u>'</u>			, , , , , , , , , , , , , , , , , , ,	•	
butanedlylibis[1,1-dimethylethyl)  Re63-7 (Varox)    Maine (CA Prop 55; NTP 11th ROC); OECD - SIDS/SIAR; WA Appen1   Source of hydrocarbons for x valuber mfg   x valuer valuer mfg   x valuer valuer valuer mfg   x valuer	78-48-8		Nervous system		IRIS; WA Appen1	Pesticide	
Appen1   Rubber mfg   Rubber							
Maine (CA Prop 65; NTP 11th ROC; OECD - SIDS/SIAR; WA Appen1 synthesis of gasoline and pesticides, catalyst in polyethylene production  78-82-0 2-Methylpropanenitrile Eyes, Nervous system HSDB; WA Appen1 polyethylene production  Maine (CA Prop 65; WA Appen1; Minnesota HRL; Minnesota MRL; Mi	70.60.7			X	, , , , , ,		Х
ROCJ; OECD - SIDS/SIAR; WA Appen1	/8-63-/	(Varox)				Rubber mfg	
Response   Cancer   Appen1   rubber mfg   Synthesis of gasoline and pesticides, catalyst in polyethylene production   x   x   x   x   x   x   x   x   x						C	
78-82-0 2-Methylpropanenitrile Eyes, Nervous system HSDB; WA Appen1 polyethylene production  78-82-0 1,2-Dichloropropane Cancer, Respiratory system Minnesota HRL; Minnesota HRL; Minnesota HRL (FPA reg. pesticide)  78-87-5 1,2-Dichloropropane Cancer, Respiratory system Minnesota HRL; Minnesota HRL; Minnesota HRL (FPA reg. pesticide)  78-90-5 Vinyl trichloride (1,1,2-Trichloroethane)  78-90-5 Vinyl trichloride (1,1,2-Trichloroethane)  78-90-6 Trichloroethylene Development, Liver, Reproduction Minnesota HRL (FPA -MCL; Minnesota HRV Solvent, degreaser Chemical intermediate, chloroacetophenone mfg, tear gas  78-90-9 Chloroacetyl chloride system, Skin  78-90-9 Chloroacetyl chloride System, Skin  78-90-1 Acrylamide Reproduction  78-90-1 Acrylamide Respiratory system  Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  78-90-1 Carciovascular system, Sepiratory  78-90-1 Cancer, Development, Sepiratory  78-90-1 Cancer, Development, Sepiratory  78-90-1 Cancer, Development, Sepiratory  78-90-1 Cancer, Development, Sepiratory  78-90-1 Cancer, Immunes objectical specifical dimenses of the positical specifical specifical specifical specifical specifical specifica	70.70.5				**	•	Х
2-Methylpropanenitrile Eyes, Nervous system HSDB; WA Appen1 pesticides, catalyst in polyethylene production Maine (CA Prop 65); WA Appen1; Minnesota HRL; Minnesota HRL winnesota HRV Solvent, degreaser Chemical intermediate, chloroacetophenone mfg, tear gas winnesota HRV Solvent, degreaser	78-79-5	isoprene	Cancer		Appen1		
78-82-0 2-Methylpropanenitrile Eyes, Nervous system HSDB; WA Appen1 polyethylene production  Maine (CA Prop 65); WA Appen1; Minnesota HRL; Solvent, dry-cleaning, pesticide (EPA reg. pesticide)  78-87-5 1,2-Dichloropropane Cancer, Respiratory system Minnesota HRV (EPA reg. pesticide)  79-00-5 Vinyl trichloride (1,1,2-Trichloroethane) Cancer, Immune system Appen1; Minnesota HRC (CA Prop 65); WA Appen1; Minnesota HRC (CA Prop 65); IARC; NTP 11th ROC); WA Appen1; Minnesota HRC (CA Prop 65); IARC; NTP 11th ROC); WA Appen1; Minnesota HRC (CA Prop 65); IARC; NTP 11th ROC); WA Appen1; Minnesota HRC (CA Prop 65); IARC; NTP 11th ROC); WA Appen1; Minnesota HRC (CA Prop 65); IARC; NTP 11th ROC); WA CA Prop 65; IARC; NTP 11th ROC; WA Prop MCL; WA MAPPEN1; WA Appen1; Minnesota HRC (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Minnesota HRC (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Minnesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Minnesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Minnesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Mannesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Mannesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Mannesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Mannesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Mannesota HRV (CA Prop 65); IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; Manneso							
Maine (CA Prop 65); WA Appen1; Minnesota HRL; Minnesota HRL Eyes, Mortality, Respiratory system, Skin  Cancer, Development, Genotoxic, Reproduction  Cancer, Development, Genotoxic, Reproduction  Acrylamide  Respiratory system  Maine (CA Prop 65); WA Appen1; Minnesota HRL Minnesota HRL Minnesota HRL-EPA -MCL; Minnesota HRL-EPA -MCL; Minnesota HRL-EPA -MCL; Minnesota HRV  Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear gas  Chemical intermediate, chloroacetophenone mfg, tear gas  X  X  X  X  X  X  X  X  X  X  X  X  X	70.02.0	2 Marthodonous and italia	Fire News water		LICED, MA Amana		X
Appen1; Minnesota HRL; Maine (CA Prop 65); WA Appen1; Minnesota HRL (EPA reg. pesticide)  (Appen1; Minnesota HRU  (Appen	78-82-0	2-Methylpropanenitrile	Eyes, Nervous system			polyethylene production	
78-87-5 1,2-Dichloropropane Cancer, Respiratory system Minnesota HRV (EPA reg. pesticide)  79-00-5 Vinyl trichloride (1,1,2-Trichloroethane)  79-00-5 Vinyl trichloride (1,1,2-Trichloroethane)  79-01-6 Trichloroethylene Development, Liver, Reproduction  79-01-6 Trichloroethylene Development, Eyes, Mortality, Respiratory  79-04-9 Chloroacetyl chloride system, Cancer, Development, Genotoxic, P9-06-1 Acrylamide Reproduction  79-06-1 Acrylamide Respiratory system  79-10-7 Acrylic acid Respiratory system, Development, Eyes, Kidney, Liver, Respiratory  79-08-1 Cancer, Development, Genotoxic, P9-08-1 Acrylamide Respiratory system, Development, Genotoxic, P9-08-1 Acrylamide Respiratory System, Povelopment, Genotoxic, P0-08-1 Acrylamide Respiratory System, P0-08-1 Acrylamide Resp					, , ,	Calvant day alamina masticida	
Maine (CA Prop 65); WA Appen1; Minnesota HRL  Vinyl trichloride (1,1,2-Trichloroethane)  Cancer, Immune system  Maine (CA Prop 65); WA Appen1; Minnesota HRL  Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1; Minnesota HRL-EPA -MCL; Minnesota HRL-EPA -MCL; Minnesota HRV  Solvent, degreaser  Chemical intermediate, chloroacetyl chloride  Eyes, Mortality, Respiratory system, Skin  EPA - HC  Gancer, Development, Genotoxic, Reproduction  Acrylamide  Respiratory system  Acrylic acid  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Appen1; Minnesota HRV  Solvent, production of vinyldine chloride  X  Solvent, production of vinyldine chloride  X  Solvent, production of vinyldine chloride  X  X  Chemical intermediate, chloroacetophenone mfg, tear gas  Synthesis of dyes, adhesives, paper and textiles Chemical intermediate for acrylates, plastics mfg, water based paints  Crop protection chemicals, carboxymethylcellulose, paints, X	70 07 E	1.2 Dichloropropage	Cancor Respiratory system		'' '	, , , , , , , , , , , , , , , , , , , ,	
Vinyl trichloride (1,1,2-Trichloroethane)  Cancer, Immune system  Appen1; Minnesota HRL  Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1; Minnesota HRV  Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear agas  P9-04-9  Chloroacetyl chloride  Cardiovascular system, Development, Eiver, Reproduction  Appen1; Minnesota HRV  Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear agas  X  System, Skin  Appen1; REACH Substances of Very High Concern  WA Appen1; REACH Substances of acrylates, plastics mfg, water Acrylic acid  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  X  Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear agas  X  Synthesis of dyes, adhesives, paper and textiles  Chemical intermediate for acrylates, plastics mfg, water based paints  Crop protection chemicals, carboxymethylcellulose, paints, X	76-67-3	1,2-Dictiloroproparie	Cancer, Respiratory system				
Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1; Minnesota HRL-EPA -MCL; Minnesota HRL-EPA -MCL; Minnesota HRV Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear gas  79-04-9 Chloroacetyl chloride system, Skin EPA - HC  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern Paper and textiles  Cancer, Development, Genotoxic, Reproduction Paper and textiles  Reproduction Paper and textiles  Chemical intermediate for acrylates, plastics mfg, water based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Crop protection chemicals, carboxymethylcellulose, paints, X	70.00 5	Vinul trichlorido (1.1.2 Trichloroothana)	Cancar Immuna system		, , ,	/ '	х
11th ROC); WA Appen1; Minnesota HRL-EPA -MCL; Minnesota HRV  Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear gas  Cancer, Development, Genotoxic, Reproduction  Cancer, Development, Genotoxic, Reproduction  Acrylamide  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  11th ROC); WA Appen1; Minnesota HRV  Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear gas  X  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Chemical intermediate for acrylates, plastics mfg, water based paints  Crop protection chemicals, carboxymethylcellulose, paints, X	79-00-5	Viriyi tricilloride (1,1,2-Tricilloroetrialie)	Cancer, illilliane system			Viriyildirle Chloride	
Minnesota HRL-EPA -MCL; Minnesota HRV Solvent, degreaser  P9-01-6 Trichloroethylene Development, Liver, Reproduction  Eyes, Mortality, Respiratory  P9-04-9 Chloroacetyl chloride system, Skin  EPA - HC  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  P9-06-1 Acrylamide Reproduction  Acrylamide Respiratory system  P9-10-7 Acrylic acid Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Minnesota HRV Solvent, degreaser  Akmine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  WA Appen1; Minnesota HRV  Crop protection chemicals, carboxymethylcellulose, paints,  X  Crop protection chemicals, carboxymethylcellulose, paints,							
79-01-6 Trichloroethylene Development, Liver, Reproduction Minnesota HRV Solvent, degreaser  Chemical intermediate, chloroacetophenone mfg, tear gas  79-04-9 Chloroacetyl chloride system, Skin EPA - HC gas  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern Paper and textiles  Cancer, Development, Genotoxic, Reproduction Very High Concern Chemical intermediate for acrylates, plastics mfg, water based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Very High Concern Chemical intermediate for acrylates, plastics mfg, water based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Crop protection chemicals, carboxymethylcellulose, paints, X							х
Eyes, Mortality, Respiratory system, Skin  EPA - HC  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Acrylia acid  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Chemical intermediate, chloroacetophenone mfg, tear gas  X  Synthesis of dyes, adhesives, paper and textiles  Chemical intermediate for acrylates, plastics mfg, water based paints  Crop protection chemicals, carboxymethylcellulose, paints, X	79-01-6	Trichloroethylene	Development Liver Reproduction		·	Solvent degresser	
Eyes, Mortality, Respiratory system, Skin  Eya - HC  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Po-10-7  Acrylic acid  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Eyes, Mortality, Respiratory system  Eyes, Mortality, Respiratory system  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Paper and textiles  Chemical intermediate for acrylates, plastics mfg, water based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Crop protection chemicals, carboxymethylcellulose, paints,	75 01 0	Themoroemytene	Development, Liver, Reproduction		Willing Sota Titt		
79-04-9 Chloroacetyl chloride system, Skin EPA - HC gas  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  79-06-1 Acrylamide Reproduction Very High Concern  79-10-7 Acrylic acid Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Nervous System, Respiratory  EPA - HC gas  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Synthesis of dyes, adhesives, paper and textiles  Chemical intermediate for acrylates, plastics mfg, water based paints  Cardiovascular system, Crop protection chemicals, carboxymethylcellulose, paints, X			Eves, Mortality, Respiratory			· ·	×
Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Acrylamide  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Synthesis of dyes, adhesives, paper and textiles  Chemical intermediate for acrylates, plastics mfg, water based paints  Cardiovascular system, Crop protection chemicals, carboxymethylcellulose, paints,	79-04-9	Chloroacetyl chloride	1 ' ' ' ' '		FPA - HC	,	^
NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Acrylamide  Reproduction  Acrylamide  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Chemical intermediate for acrylates, plastics mfg, water based paints  Crop protection chemicals, carboxymethylcellulose, paints,  X	75 0 1 5	Cinor ducetyr cinoriae	system, skin			Pas	
NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Acrylamide  Reproduction  Acrylamide  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  NTP 11th ROC; NTP CERHR); WA Appen1; REACH Substances of Very High Concern  Chemical intermediate for acrylates, plastics mfg, water x  WA Appen1; Minnesota HRV  Crop protection chemicals, carboxymethylcellulose, paints,  X					Maine (CA Prop 65: IARC: IRIS:		
Cancer, Development, Genotoxic, Reproduction  Acrylamide  Reproduction  Acrylamide  Reproduction  Appen1; REACH Substances of Very High Concern  Chemical intermediate for acrylates, plastics mfg, water x  Acrylic acid  Respiratory system  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Acrylic acid  Cancer, Development, Genotoxic, Very High Concern  Chemical intermediate for acrylates, plastics mfg, water x  Appen1; Minnesota HRV  Crop protection chemicals, carboxymethylcellulose, paints,							x
79-06-1 Acrylamide Reproduction Very High Concern paper and textiles  Chemical intermediate for acrylates, plastics mfg, water x  Acrylic acid Respiratory system WA Appen1; Minnesota HRV based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Acrylic acid Cardiovascular system, Crop protection chemicals, carboxymethylcellulose, paints,			Cancer, Development, Genotoxic.			Synthesis of dyes, adhesives.	
79-10-7 Acrylic acid Respiratory system WA Appen1; Minnesota HRV based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Chemical intermediate for acrylates, plastics mfg, water x  WA Appen1; Minnesota HRV based paints  Crop protection chemicals, carboxymethylcellulose, paints,	79-06-1	Acrylamide	• • • • • • • • • • • • • • • • • • • •		'' '	' · · · · · · · · · · · · · · · · · ·	
Acrylic acid Respiratory system WA Appen1; Minnesota HRV based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  acrylates, plastics mfg, water x based paints  Crop protection chemicals, carboxymethylcellulose, paints,		·					
79-10-7 Acrylic acid Respiratory system WA Appen1; Minnesota HRV based paints  Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  WA Appen1; Minnesota HRV Crop protection chemicals, carboxymethylcellulose, paints,						acrylates, plastics mfg, water	x
Cardiovascular system, Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Cardiovascular system, Crop protection chemicals, carboxymethylcellulose, paints,	79-10-7	Acrylic acid	Respiratory system		WA Appen1; Minnesota HRV	· · · · · · · · · · · · · · · · · · ·	
Development, Eyes, Kidney, Liver, Nervous System, Respiratory  Crop protection chemicals, carboxymethylcellulose, paints,			· · · · · · · · · · · · · · · · · · ·				
Nervous System, Respiratory carboxymethylcellulose, paints,			· ·			Crop protection chemicals,	
			· · · · · · · · · · · · · · · · · · ·			carboxymethylcellulose, paints,	Х
79-11-8   Chloroacetic acid   system, Skin   WA Appen1; OECD - SIDS/SIAR   pharmaceuticals	79-11-8	Chloroacetic acid	system, Skin		WA Appen1; OECD - SIDS/SIAR	pharmaceuticals	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65); WA		
				Appen1; WA CHCC; Minnesota		x
79-34-5	1,1,2,2-Tetrachloroethane	Cancer		HRL	Solvent, degreaser	
					Chlorotrifluoroethylene resins	x
					mfg, synthesis of plastics,	^
79-38-9	Chlorotrifluoroethylene	Kidney		HSDB	lubricants, elastomers	
				Maine (CA Prop 65; IRIS); WA	Chemical intermediate for	
79-43-6	Dichloroacetic acid	Cancer		Appen1	pharmaceuticals, reagent	
					Former chemical intermediate	
				Maine (CA Prop 65; IARC; NTP	for dyes, pharmaceuticals,	
79-44-7	Dimethylcarbamoyl chloride	Cancer		11th ROC); WA Appen1	pesticides	
				Maine (CA Prop 65; NTP 11th		
				ROC); WA Appen1; Minnesota	Solvent in inks, paints,	
79-46-9	2-Nitropropane	Cancer, Liver		HRV	adhesives, chemical synthesis	
			Х		Food additive, chemical	x
	bicyclo[2.2.1]heptane, 2,2-dimethyl-3-			Maine (OSPAR Chemicals of	intermediate, pharmaceutical,	
79-92-5	methylene- (Camphene)			Concern); WA Appen1	mothproofing, fragrance	
				Maine (EPA Final PBT Rule for		
				TRI; TRI PBT Chemical List; EPA		
			x	Priority PBT; WA PBT List;		x
				OSPAR Chemicals of Concern;		
				OSPAR Chemicals for Priority	Flore retardent en electronic	
79-94-7	Tetrabromobisphenol A			Action); WA Appen1; WA CHCC;		
79-94-7	Tetrabromobisphenor A			Oregon P3 List	circuit boards, plasticizer	
	phenol, 4,4'-(1-methylethylidene)bis[2,6				Flame retardant monomer in	
	dichloro- (2,2',6,6'-		X	Maine (OSPAR Chemicals of	epoxy resins, polycarbonates,	
79-95-8	TETRACHLOROBISPHENOL A)			Concern); WA Appen1	and polyesters	
7 3-33-8	TETRACTEORODIST TENOL A)			Maine (NTP CERHR; OSPAR	una poryesters	
				Chemicals of Concern; EU		
	4,4'-methylethylidenebisphenol (BPA)			Endocrine Disruptor); WA	Monomer in polycarbonate	x
80-05-7	(Bisphenol A)	Development, Endocrine system		Appen1; WA CHCC	and epoxy resins, plastics mfg	
,	(Siephierio) / (	Deterophient, Endocrine System		1,1502) **********************************	and epoxy resins, plastics fing	
	benzenemethanol, 4-chloroalpha(4-		х	Maine (OSPAR Chemicals of		
80-06-8	chlorophenyl)alphamethyl- (Dimite)		, and the second	Concern); WA Appen1	Pesticide (not EPA registered)	
	p - 7, - p - 2			,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
80-07-9	4,4'-Dichlorodiphenyl sulfone	Genotoxic, Kidney, Liver		OECD - SIDS/SIAR	Production of thermoplastics	х



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Production of acetone and	x
80-15-9	Cumene hydroperoxide	Respiratory system, Skin		HSDB	phenol, curing agent	
	4,4'-Oxybis(benzenesulfonyl hydrazide)				Sponge rubber mfg and	x
80-51-3	(OBSH)	Adrenal glands, Kidney, Liver		OECD - SIDS/SIAR	expanded plastics	
					Monomer for	х
80-62-6	Methyl methacrylate MMA	Posniratory system		M/A Appoint: Minneseta HBV/	polymethacrylate resins,	
81-14-1	Musk ketone	Respiratory system		WA Appen1; Minnesota HRV WA Appen1; Oregon P3 List	comonomer for copolymers Fragrances	
01-14-1	IVIUSK RETOITE		X	Maine (OSPAR Chemicals of	ridgialices	
				Concern; REACH Substances of		
	benzene, 1-(1,1-dimethylethyl)-3,5-		x	Very High Concern); WA	Fragrance compounds,	
81-15-2	dimethyl-2,4,6-trinitro- (Musk xylene)			Appen1; Oregon P3 List	cosmetics	
01-13-2	difficulty (widsk xyleffe)			Maine (CA Prop 65; NTP 11th	Cosmetics	
81-49-2	1-Amino-2,4-dibromoanthraquinone	Cancer		ROC); WA Appen1	Dye	
01 15 2	Benzenesulfonamide, N-(4-amino-9,10-	Curren		itee,, withpeni	Dyc.	
	dihydro-3- methoxy-9,10-dioxo-1-					
	anthracenyl)-4-methyl- (C.I. Disperse		х	Maine (Canada PBiT); WA		
81-68-5	Red 86)			Appen1	Dye	
	,			Maine (CA Prop 65; EU		
				Reproductive Toxicant); WA		
81-81-2	Warfarin	Development, Endocrine system		Appen1	Pesticide, anticoagulant	
				Maine (CA Prop 65); WA		
81-88-9	D&C Red No. 19	Cancer		Appen1	Dye	
	7H-benz[de]anthracen-7-one, 3,9-		X	Maine (OSPAR Chemicals of	Chemical intermediate in	
81-98-1	dibromo-		^	Concern); WA Appen1	chemical synthesis	
			x	Maine (OSPAR Chemicals of		
82-05-3	7H-benz[de]anthracen-7-one		· ·	Concern); WA Appen1	Dye	
				Maine (CA Prop 65; NTP 11th		
82-28-0	1-Amino-2-methylanthraquinone	Cancer		ROC); WA Appen1	Chemical intermediate for dyes	
				Maine (NWM Priority		
			Х	Chemicals; OSPAR Chemicals of		
02.60.0	S. dashlara Nashara			Concern); WA Appen1; Oregon	Condition to the contract of	
82-68-8	Pentachloronitrobenzene			P3 List	Seed treatment, pesticide	
				Maine (NIMM Priority		
			х	Maine (NWM Priority Chemicals; OSPAR Chemicals of		
83-32-9	Acenaphthene			Concern); WA Appen1	Dye, insecticide, fungicide	
	benzene, 1-(1,1-dimethylethyl)-2-			Concerny, WA Appeni	byc, msecuciae, rungiciae	
	methoxy-4-methyl-3,5-dinitro- (Musk		X	Maine (OSPAR Chemicals of		
83-66-9	ambrette - artificial)		^	Concern); WA Appen1	Fragrances	
83-79-4	Rotenone	Reproduction		IRIS; WA Appen1	Pesticide	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EU Endocrine Disruptor);		
84-61-7	Dicyclohexyl phthalate (DCHP)	Endocrine system		WA Appen1	Plasticizer	
				Maine (CA Prop 65); WA	Chemical production of acid	х
84-65-1	Anthraquinone	Cancer		Appen1	and base dyes, pesticide	
				Maine (EU Endocrine Disruptor);		
				WA Appen1; WA CHCC;		х
84-66-2	Diethyl phthalate (DEP)	Endocrine system		Minnesota HRL	Plasticizer	
				Maine (OSPAR Chemicals of		
				Concern); WA Appen1; REACH		
	1,2-benzenedicarboxylic acid, bis(2-			Substances of Very High	·· ·	
84-69-5	methylpropyl) ester	Reproduction		Concern	Plasticizer	
				Maine (CA Prop 65; NTP CERHR;		
				OSPAR Chemicals of Concern;		x
	4.2 harrier dies de soulier et de different	B. daniel F. daniel and A.		EU Endocrine Disruptor; REACH		
04.74.3	1,2-benzenedicarboxylic acid, dibutyl	Development, Endocrine system,		Substances of Very High	Dia di dia dia dia dia dia dia dia dia di	
84-74-2	ester (DBP) (phthalate)	Reproduction		Concern); WA Appen1	Plasticizer, epoxy resins	
04.75.2	Di a havad ahthalata (DallD)	Canada		Maine (CA Prop 65); WA	Diagram and	
84-75-3 85-00-7	Di-n-hexyl phthalate (DnHP)	Cancer		Appen1; WA CHCC	Plastisol mfg Pesticide	
85-00-7	Diquat dibromide	Development, Eyes		IRIS; WA Appen1	Pesticide	
				Maine (NWM Priority	Desearch dues avalesives	
85-01-8	Phenanthrene		Х	Chemicals); WA Appen1;	Research, dyes, explosives,	
85-01-8	Phenanthrene			Oregon P3 List	drugs Add-in flame retardant,	
				Maine (OSPAR Chemicals of	thermoset polyester resins for	
			х	Concern; OSPAR Chemicals for	circuit boards, textiles,	
85-22-3	   Pentabromoethylbenzene			Priority Action); WA Appen1	adhesives (1980s)	
83-22-3	Fentabiomoethylbenzene			Friority Action), WA Appeni	Curing agent for epoxy resins	
					and intermediate for	x
85-42-7	Hexahydrophthalic anhydride (HHPA)	Respiratory system, Skin		EPA - HC	plasticizers	^
03 42-7	Treating arophthane anniyanae (IIIIFA)	nespiratory system, skin		LIA IIC	Phthaleins mfg, phthalates,	
					rubber retarder, synthetic	x
85-44-9	Phthalic anhydride	Eyes, Respiratory system, Skin		WA Appen1; WA CHCC; HSDB	fibers	^
55 11 5	. Telland diffiyariac	2,00, 1.00pilatory system, skiii		Maine (CA Prop 65; OSPAR		
				Chemicals of Concern; EU		
				Endocrine Disruptor; REACH		
				Substances of Very High		x
	1,2-benzenedicarboxylic acid, butyl	Development, Endocrine system,		Concern); WA Appen1; HSDB;		
85-68-7	phenylmethyl ester (BBP) (phthalate)	Reproduction		Minnesota HRL	Plasticizer	



			Persistent, Bioaccumulative, Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chamical Name	Hoolth androint(s)	Persistent, very	Saurania)	Han avamula/a\ av aloga	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name 2-Naphthalenol, 1-[[4-	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years)
	(phenylazo)phenyl]azo]- (C.I. Solvent		x	Maine (Canada PBiT); WA		
85-86-9	Red 23)		×	Appen1	Dye	
83-80-9	neu 23)			Maine (CA Prop 65; IRIS); WA	Radical scavenger, anti-	
					J ,	
86-30-6	N-Nitrosodiphenylamine	Consor		Appen1; WA CHCC; Minnesota HRL	scorching agent, rubber accelerator	
80-30-0	N-Nitrosodiprienylamine	Cancer			accelerator	
				Maine (NWM Priority		
			Х	Chemicals); WA Appen1;		
86-73-7	Fluorene	Blood		Minnesota HRL	Chemical intermediate	
					Pesticide mfg, lubricants,	
				Maine (CA Prop 65); WA	rubber antioxidants, dye	
86-74-8	Carbazole	Cancer		Appen1	intermediate	
	Benzamide, 3,5-dibromo-N-(4-		x	Maine (Canada PBiT); WA	Pesticide (EPA reg. cancelled),	
87-10-5	bromophenyl)-2-hydroxy-		^	Appen1	pharmaceutical	
				Maine (CA Prop 65); WA		
87-29-6	Cinnamyl anthranilate	Cancer		Appen1	Flavoring agent	
				Maine (EU PBT List; OSPAR		
				Chemicals of Concern; OSPAR	Chemical solvent for high-	
			Х	Chemicals for Priority Action);	melting products, coolant in	
87-61-6	1,2,3-trichlorobenzene			WA Appen1	electrical installations	
				Maine (CA Prop 65); WA		
87-62-7	2,6-Xylidine (2,6-Dimethylaniline)	Cancer		Appen1	Intermediate in chemical mfg	
				Maine (NWM Priority	9	
				Chemicals; WA PBT List; EU PBT		
				List; OSPAR Chemicals of		
			х	Concern; Canada PBiT); WA		
				Appen1; WA CHCC; Minnesota		
87-68-3	Hexachlorobutadiene	Kidney		HRL	Solvent, fumigant	
07 00 3	Tiexacinorobataaiene	Ridicy		Maine (OSPAR Chemicals of	Joivent, runngunt	
87-82-1	benzene, hexabromo-		x	Concern); WA Appen1	Flame retardant	
07-02-1	benzene, nexabiomo-			Maine (OSPAR Chemicals of	Flame retardant (no longer in	
87-83-2	hanzana nantahramamathul		x	Concern); WA Appen1	, ,	
07-03-2	benzene, pentabromomethyl-				use)	
				Maine (CA Prop 65; EU		
				Endocrine Disruptor; IRIS; NWM		
			x	Priority Chemicals; OSPAR		
				Chemicals of Concern); WA		
07.06.5		Cancer, Endocrine system, Kidney,		Appen1; Minnesota HRL- EPA-		
87-86-5	Pentachlorophenol	Liver		MCL	Pesticide	
			х	Maine (CA Prop 65; IRIS; NTP		
				11th ROC); WA Appen1;	Pesticide (EPA reg. cancelled),	
88-06-2	2,4,6-Trichlorophenol	Cancer		Oregon P3 List; Minnesota HRL	preservative, antimicrobial	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
88-12-0	2-Pyrrolidinone, 1-ethenyl-	Liver		HSDB; WA Appen1	Water soluble and insoluble forms of polyvinyl pyrrolidone for pharmaceuticals and cosmetics mfg, disinfectant	х
88-60-8	6-tert-Butyl-m-cresol	Liver		OECD - SIDS/SIAR	Water soluble and insoluble forms of polyvinyl pyrrolidone for pharmaceuticals and cosmetics mfg, disinfectant	х
88-72-2	o-Nitrotoluene	Cancer		Maine (CA Prop 65); WA Appen1	Synthesis of azo dyes, petrochemicals, pesticides, pharmaceuticals	х
88-85-7	Dinoseb	Development, Reproduction	х	Maine (CA Prop 65); WA Appen1; Oregon P3 List	Pesticide (EPA reg. cancelled)	х
89-32-7	Pyromellitic dianhydride	Respiratory system		HSDB	Curing agent, aromatic polyamides mfg	х
90-04-0	o-Anisidine	Cancer		Maine (CA Prop 65); WA Appen1	Intermediate in dye mfg, pharmaceuticals, fragrances,	
90-43-7	o-Phenylphenol	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide, rubber industry, plasticizer	
90-94-8	Michler's ketone	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Synthesis of auramine derivatives, pigment mfg	
91-20-3	Naphthalene	Cancer, Respiratory system	х	Maine (CA Prop 65; NTP 11th ROC; NWM Priority Chemicals); WA Appen1; Minnesota HRL; Minnesota HRV	Moth repellant, chemical mfg, wood preservation, pharmaceutical	х
91-22-5	Quinoline	Cancer		Maine (IRIS); WA Appen1	Dyestuffs, chemical intermediate, flavoring, decarboxylation reagent	
91-23-6	o-Nitroanisole	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Organic chemical synthesis, chemical intermediate	
91-59-8	2-Naphthylamine	Cancer		Maine (CA Prop 65; IARC; EU Carcinogen; NTP 11th ROC); WA Appen1	Dye mfg, research	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
		,	, ,	Maine (CA Prop 65; IARC; IRIS;		
				EU Carcinogen; NTP 11th ROC;		
			x	OSPAR Chemicals of High		
	[1,1'-biphenyl]-4,4'-diamine, 3,3'-			Concern); WA Appen1;		
91-94-1	dichloro-	Cancer		Minnesota HRL	Dye, curing agent	
					Chemical intermediate in	
92-15-9	Acetoacet-o-anisidide	Blood, Spleen		EPA - HC	production of pigments	Х
					In coal tar and anthracene	
			x	Maine (OSPAR Chemicals of	contaminants; organic	
92-24-0	Naphthacene			Concern); WA Appen1	synthesis	
				Maine (CA Prop 65; IARC; EU		
				Carcinogen; NTP 11th ROC); WA	Detection of sulfates, rubber	
92-67-1	4-Aminobiphenyl (4-amino-diphenyl)	Cancer		Appen1	antioxidant	
				Maine (EU Endocrine Disruptor);		
92-69-3	4-Hydroxybiphenyl = 4-Phenylphenol	Endocrine system		WA Appen1	Chemical intermediate	
					Dyes/pigments,	
92-70-6	3-Hydroxy-2-naphthoic acid	Eyes, Skin		OECD - SIDS/SIAR	pharmaceutical	х
	2-Naphthalenecarboxamide, N-(5-					
	chloro-2,4-dimethoxyphenyl)-3-hydroxy-		x	Maine (Canada PBiT); WA		
92-72-8	(C.I. 37550)			Appen1	Dye	
	2-Naphthalenecarboxamide, N-(4-					
	chloro-2-methylphenyl)-3-hydroxy- (C.I.		x	Maine (Canada PBiT); WA		
92-76-2	37525)			Appen1	Dye	
	·			Maine (CA Prop 65; IARC; EU		
				Carcinogen; IRIS; NTP 11th		
				ROC); WA Appen1; Minnesota		
92-87-5	Benzidine [and its salts]	Cancer		HRV	Dyes, reagent	
				Maine (EU Endocrine Disruptor);		
92-88-6	4,4'-Dihydroxybiphenyl = 4,4'-Biphenol	Endocrine system		WA Appen1		х
				Maine (CA Prop 65); WA	Plasticizer for resins and	
92-93-3	4-Nitrobiphenyl	Cancer		Appen1	polystyrene	
					Heat storage, transfer agents,	
92-94-4	p-Terphenyl		Х	Oregon P3 List	textile dye carrier	
				Maine (CA Prop 65; NTP 11th	Flavoring, insect attractant,	
93-15-2	Methyleugenol	Cancer		ROC); WA Appen1	pharmaceutical	
				Maine (OSPAR Chemicals of		
	1,4-benzenediamine, N,N'-di-2-		x	Concern; Canada PBiT); WA		
93-46-9	naphthalenyl- (Diafen NN)			Appen1		
					Chemical intermediate for	.,
93-68-5	o-Acetoacetotoluidide	Blood, Spleen		OECD - SIDS/SIAR	pigments	х
	2-(2,4,5-Trichlorophenoxy) propionic			WA Appen1; Minnesota HRL -		
93-72-1	acid	Liver		EPA-MCL	Pesticide (EPA reg. cancelled)	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				2000.00(0)	and animpro(e) are animal	, ,
93-76-5	2,4,5-Trichlorophenoxyacetic acid	Blood, Development		WA Appen1; Minnesota HRL	Pesticide (EPA reg. cancelled)	
				Maine (EU Endocrine Disruptor);	, , , , , , , , , , , , , , , , , , , ,	
94-13-3	n-propyl p-hydroxybenzoate	Endocrine system		WA Appen1; WA CHCC	antimicrobial, preservative	
				Maine (EU Endocrine Disruptor);	Posticido (FDA vog consolled)	
94-26-8	n-Butyl p-Hydroxybenzoate	Endocrine system		WA Appen1; WA CHCC	preservative	
34-20-8	II-Butyi p-iiyuloxybelizoate	Endocrine system		Maine (CA Prop 65; NTP 11th	Piperonyl butoxide mfg,	
94-59-7	Safrole	Cancer		ROC); WA Appen1	preservative	
	2-Methyl-4-chlorophenoxyacetic acid					
94-74-6	(MCPA)	Kidney, Liver		WA Appen1; Minnesota HRL	Pesticide	
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	Blood, Kidney, Liver		WA Appen1; Minnesota HRL	Pesticide	
				Maine (CA Prop 65; EU		
04.83.6	2.4.D. buturis asid	Endocrino system Benrodystion		Endocrine Disruptor); WA	Pesticide	
94-82-6	2,4-D butyric acid	Endocrine system, Reproduction		Appen1 Maine (CA Prop 65; NTP 11th	Pesticide	
95-06-7	Sulfallate	Cancer		ROC); WA Appen1	Pesticide (EPA reg. cancelled)	
	N-tert-butylbenzothiazole-2-			, , , , , , , , , , , , , , , , , , ,	Accelerator for vulcanization of	
95-31-8	sulphenamide	Blood, Kidney, Liver		OECD - SIDS/SIAR	rubber	х
95-49-8	o-Chlorotoluene	Body Weight		IRIS; WA Appen1	Solvent, pesticide component	
				Maine (CA Prop 65; IARC; NTP		
05 53 4	a Tabulatina	Canada		11th ROC); WA Appen1; WA	Printing textiles, intermediate	х
95-53-4	o-Toluidine	Cancer		CHCC	in dye mfg, colors	
	o-Phenylenediamine and its salts, o-				Mfg dyes, photographic	
	Phenylenediamine, o-Phenylenediamine			Maine (CA Prop 65); WA	developing agent, organic	X
95-54-5	dichydrochloride	Cancer		Appen1	chemical synthesis, hair dye	
95-57-8	2 - Chlorophenol	Development		WA Appen1; Minnesota HRL	Organic synthesis, disinfectant	
05.65.6				1010 1444 4	Starting materials for phenolic	x
95-65-8	3,4-Dimethylphenol	Blood, Kidney, Liver, Spleen		IRIS; WA Appen1	resins Chamical intermediate for	
95-69-2	p-Chloro-o-toluidine	Cancer		Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1	Chemical intermediate for dyes, pesticide	
33-03-2	p-cinoro-o-tolululile	Cancer		Maine (OSPAR Chemicals of	ayes, pesticiae	
				Concern; EU Endocrine	Chemical intermediate for dyes	
95-76-1	3,4-dichloroaniline	Endocrine system		Disruptor); WA Appen1	and pesticides	
				Maine (CA Prop 65); WA		
95-79-4	5-Chloro-o-toluidine	Cancer		Appen1		



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Preparation of toluene	
				Maine (CA Prop 65; NTP 11th	isocynates, photographic	
95-80-7	2,4-Diaminotoluene	Cancer		ROC); WA Appen1; WA CHCC	developer	
				Maine (CA Prop 65; NTP 11th		
95-83-0	4-Chloro-o-phenylenediamine	Cancer		ROC); WA Appen1	Oxidation base, hair dyes	
95-94-3	1,2,4,5-Tetrachlorobenzene		х	Maine (NWM Priority Chemicals; WA PBT List; OSPAR Chemicals of Concern; Canada PBiT); WA Appen1	Synthesis of 2,4,5- Trichlorophenate sodium, mfg pesticides	
95-95-4	2,4,5-Trichlorophenol		x	Maine (NWM Priority Chemicals; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	Preservative	
93-93-4	2,4,3-111011010p11e1101			r 3 List	Production of styrene glycol,	
96-09-3	Styrene oxide	Cancer		Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1	epoxy resins, cosmetics,	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	Cancer, Endocrine system, Reproduction		Maine (CA Prop 65; NTP 11th ROC; EU Reproductive Toxicant; EU Endocrine Disruptor); WA Appen1	Pesticide (EPA reg. cancelled)	
96-13-9	2,3-Dibromo-1-propanol	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Production of tris(1,2,3-dibromopropyl) phosphate, flame retardants	
96-18-4	1,2,3-Trichloropropane	Cancer, Kidney, Liver		Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1; Minnesota HRL	Paint and varnish remover, solvent	
96-23-1	1,3-Dichloro-2-propanol (1,3-DCP)	Cancer		IARC 2B	solvent, chemical intermediate	
96-24-2	alpha-Chlorohydrin	Reproduction		HSDB	Pesticide, mfg of dye intermediates	х
96-33-3	Methyl acrylate	Eyes, Respiratory system, Skin		HSDB; WA Appen1	Production of acrylic and modacrylic fibers	х
96-45-7	Ethylene thiourea	Cancer, Development, Endocrine system		Maine (CA Prop 65; NTP 11th ROC; EU Endocrine Disruptor); WA Appen1	Accelerator for rubber production	
96-48-0	gamma-Butyrolactone	Nervous system		HSDB	Chemical mfg, synthesis of pesticides, abused drug	x
96-66-2	Phenol, 4,4'-thiobis[2-(1,1-dimethylethyl)-6-methyl-		х	Maine (Canada PBiT); WA Appen1		



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
			x	Maine (OSPAR Chemicals of		
97-18-7	phenol, 2,2'-thiobis[4,6-dichloro-			Concern); WA Appen1	Surfactant, antimicrobial	
97-23-4	Dichlorophene	Development		Maine (CA Prop 65); WA Appen1	Antimicrobial, pharmaceutical	
	o-Aminoazotoluene (C.I. Solvent Yellow			Maine (CA Prop 65; NTP 11th		
97-56-3	3)	Cancer		ROC); WA Appen1	Dyes, pharmaceutical	
		Development, Nervous system,				х
97-99-4	2-Furanmethanol, tetrahydro-	Pituitary, Reproduction		OECD - SIDS/SIAR	Solvent, chemical intermediate	
98-00-0	Furfuryl alcohol	Eyes, Respiratory system		HSDB	Solvent for cellulose ethers and esters, tanning hides	х
					Source of furfuryl alcohol, tetrahydrofurfuryl alcohol, Furan, rubber cements,	х
98-01-1	Furfural	Eyes, Respiratory system		HSDB; IRIS; WA Appen1	synthetic flavoring ingredient.	
98-07-7	Benzotrichloride	Cancer		Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC); WA Appen1; Oregon P3 List	Organic chemical synthesis, production of pesticides	х
98-54-4	Butylphenol	Endocrine system		Maine (OSPAR Chemicals of Concern); WA Appen1	Plasticizer, chemical intermediate	х
98-82-8	Cumene	Cancer, Kidney		CA Prop 65; WA Appen1; Minnesota HRV; Minnesota HRL	Production of chemical, thinner for paints, enamels, lacquers	х
98-83-9	α-Methyl styrene (alpha-Methylstyrene)	Cancer		IARC 2B and Cal Prop 65	polymerization monomer	
98-87-3	α-Chlorinated toluenes (benzal chloride, benzo-trichloride, benzyl chloride) and benzoyl chloride (combined exposures)	Cancer		Maine (IARC); WA Appen1	Preparation of benzoyl chloride	
98-88-4	α-Chlorinated toluenes (benzal chloride, benzo-trichloride, benzyl chloride) and benzoyl chloride (combined exposures)	Cancer		Maine (IARC); WA Appen1	Introduction of benzoyl group into alcohols, phenols, and amine	x
98-95-3	Nitrobenzene	Cancer, Reproduction		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Soaps, shoe polishes, chemical mfg, preservative, extraction solvent	x
99-08-1	m-Nitrotoluene	Body Weight, Kidney, Liver		EPA - HC	Manufacture of dyes, toluidines, explosives	х



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Explosives, vulcanizing natural	
99-35-4	1,3,5-Trinitrobenzene	Blood		WA Appen1; Minnesota HRL	rubber	
				Maine (CA Prop 65); WA		
99-65-0	m-Dinitrobenzene	Reproduction		Appen1	Synthesis of organic chemicals	
				Maine (EU Endocrine Disruptor);		
99-76-3	Methyl p-Hydroxybenzoate	Endocrine system		WA Appen1; WA CHCC	Antibacterial, antimicrobial	
				Maine (EU Endocrine Disruptor);	· ·	Х
99-96-7	p-Hydroxybenzoic acid	Endocrine system		WA Appen1; WA CHCC	fungicides, corrosion inhibitor	
				Maine (EU Endocrine Disruptor);	-	х
99-99-0	4-Nitrotoluene	Endocrine system		WA Appen1	chemicals, rubber chemicals	
				Maine (CA Prop 65); WA	Chemical mfg of dyestuffs,	
100-00-5	1-Chloro-4-nitrobenzene	Cancer		Appen1	insecticides	
					Intermediate for dyes,	x
100-01-6	4 - Nitrobenzenamine	Liver		HSDB; NTP; WA Appen1	antioxidants, pesticides	
	S			Maine (CA Prop 65); WA	Organic chemical synthesis,	
100-25-4	p-Dinitrobenzene	Reproduction		Appen1	dyes	
				Maine (CA Prop 65); WA	Polymers, organic chemical	х
100-40-3	4-Vinylcyclohexene	Cancer, Reproduction		Appen1	synthesis	
				100 Dec (50 NA)		
				Maine (CA Prop 65); WA	Dead attack of a substitute bloom	х
100 41 4	Eth. Ilb and an	Canada Barralananan Kidaari Liran		Appen1; WA CHCC; Minnesota	Production of synthetic rubber,	
100-41-4	Ethylbenzene	Cancer, Development, Kidney, Liver		HRV; Minnesota HBV	precursor to styrene	
		Endocrino system Eves Nemaus		Maine (EU Endocrine Disruptor);	Mfg plactice dilutant racin	
100 42 5	Ch. was a	Endocrine system, Eyes, Nervous		WA Appen1; WA CHCC; Minnesota HRV	Mfg plastics, dilutent, resin,	х
100-42-5	Styrene	system, Respiratory system		Minnesota HKV	food flavoring  Manufacture of benzyl	
				Maine (CA Prop 65; IARC; IRIS);	compounds, photographic	.,
100-44-7	Benzyl chloride	Cancer		WA Appen1	developer	x
100-44-7	Denzyi cilionae	Cancel		Maine (CA Prop 65; NTP 11th	uevelopei	
100-75-4	N-Nitrosopiperidine	Cancer		ROC); WA Appen1	Research	
100-73-4	in-initi 030 piperiulile	Cancer		NOCJ, WA Appelli	Chemical intermediate, rubber	
101-02-0	Triphenyl phosphite	Nervous system, Skin		HSDB	industry	х
101-02-0	ттрпенугрнозрпке	iver vous system, skill		Maine (CA Prop 65; IARC; NTP	industry	
101-14-4	4,4'-Methylene bis(2-chloroaniline)	Cancer		11th ROC); WA Appen1	Curing agent for epoxy resins	
	Urea, N-(4-chlorophenyl)-N'-(3,4-	Currect		Maine (OSPAR Chemicals of	Carring agent for epoxy resinis	
			х	1	Disinfectant	
		Spleen				
101-20-2 101-21-3	dichlorophenyl)- (Triclocarban) Chlorpropham	Spleen	^	Concern); WA Appen1 IRIS; WA Appen1	Disinfectant Pesticide	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Phenyl-4-hydroxyphenylmethane = 4-			Maine (EU Endocrine Disruptor);		
101-53-1	Benzylphenol (p-Benzylphenol)	Endocrine system		WA Appen1		
101-55-3	4-Bromophenyl phenyl ether		х	Maine (NWM Priority	Research, flame retardant	
101-55-3	4,4'-Methylene bis(N,N-			Chemicals); WA Appen1 Maine (CA Prop 65; IRIS; NTP	Chemical intermediate for	
101-61-1	dimethyl)benzenamine	Cancer		11th ROC); WA Appen1	dyes, reagent	
101-01-1	diffectivi)benzenamine	Carreer		Titil Noc), WA Appeni	Coatings, resins, spandex,	
101-68-8	Methylenebis (4-Phenylisocyanate)	Respiratory system		WA Appen1; Minnesota HRV	gums	х
				Maine (OSPAR Chemicals of	8*****	
101-76-8	benzene, 1,1'-methylenebis[4-chloro-		x	Concern); WA Appen1		
				, , ,	Production of isocynates,	
				Maine (CA Prop 65; NTP 11th	polyisocyantes for	
				ROC; REACH Substances of Very	polyurethane foam,	х
101-77-9	4,4'-Methylenedianiline	Cancer		High Concern); WA Appen1	preparation of azo dyes	
					Chemical intermediate for	
	4,4'-Diaminodiphenyl ether (4,4'-			Maine (CA Prop 65; NTP 11th	polyimide polyester-imide	x
101-80-4	Oxydianiline)	Cancer		ROC); WA Appen1	resins	
			х	Maine (OSPAR Chemicals of	Dyes, perfumes, manufacture	
101-81-5	benzene, 1,1'-methylenebis-			Concern); WA Appen1	of hexachlorophene	
101-86-0	alpha-Hexylcinnamaldehyde	Skin		EPA - RBP	Soaps	Х
101 00 6	Dightsidal reserving other (DCRF)	Consor		Maine (CA Prop 65; NTP 11th	Epoxy resins, curing agent for	
101-90-6	Diglycidyl resorcinol ether (DGRE)	Cancer		ROC); WA Appen1	polysulfide rubber  Manufacturing of yellow dyes,	
102-01-2	Acetoacetanilide	Blood		OECD - SIDS/SIAR	pesticide mfg	x
102-01-2	1,3-Diphenylguanidine	Reproduction		OECD - SIDS/SIAR	Vulcanization accelerator	x
102 00 7	1,5 Diprienty, Buarname	neproduction		Maine (CA Prop 65; IRIS); WA	Manufacture of dyes, rubber	^
103-33-3	Azobenzene	Cancer		Appen1	accelerators, dyes	
103-63-0	Phenylhydrazine	Cancer		Maine (CA Prop 65)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				Maine (EU Endocrine Disruptor;		
			Х	OSPAR Chemicals of Concern);	Co-stabilizer with mixed-metal	
104-40-5	phenol, 4-nonyl-	Endocrine system		WA Appen1; WA CHCC	stabilizers, phenolic resins	
	2-Propenal, 3-phenyl-				Flavoring agent, corrosion	x
104-55-2	(Cinnamaldehyde)	Skin		EPA - RBP	inhibitor	X
					Manufacture of synthetic	x
1				l	fibers, like nylon 6; bristles,	
105-60-2	Caprolactam	Reproduction		IRIS; WA Appen1	coatings, plasticizers	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Sauran/a)	Han avamula(s) or slass	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	nealth endpoint(s)	Bioaccumulative (VPVB)	Source(s)	Use example(s) or class	or 4 years)
					Organic synthesis of dyestuffs	
106-37-6	1,4-Dibromobenzene	Liver		IRIS; WA Appen1	and pharmaceuticals	
				WA Appen1; HSDB; OECD -	Chemical intermediate of	х
106-44-5	p-cresols	Eyes, Skin		SIDS/SIAR; Minnesota HRL	tricresyl and cresyl diphenyl	
				Maine (CA Drop 65: NTD 11th	Odor control, disinfectant,	
				Maine (CA Prop 65; NTP 11th ROC); WA Appen1; Minnesota	chemical intermediate,	х
106-46-7	p-Dichlorobenzene	Cancer, Liver		HRL; Minnesota HRV	lubricant	
100-40-7	p-Dichiorobenzene	Cancer, Liver		Maine (CA Prop 65); WA	lubricant	
106-47-8	p-Chloroaniline	Cancer		Appen1; WA CHCC	Chemical intermediate	
100 17 0	p coreae			rippenzy titt entec	Hair dye, dyeing furs,	
106-50-3	1,4-Benzenediamine	Eyes, Respiratory system, Skin		HSDB; WA Appen1	photochemicals	Х
	4-Vinyl-1-cyclohexene diepoxide (Vinyl			Maine (CA Prop 65; NTP 11th		
106-87-6	cyclohexenedioxide)	Cancer, Reproduction		ROC); WA Appen1	Polymer organic synthesis	
					Scavenger for chlorine-	
					containing materials, corrosion	
106-88-7	1,2-Epoxybutane	Respiratory system		WA Appen1; Minnesota HRV	inhibitor	
				Maine (CA Prop 65; EU		
				Endocrine Disruptor; IARC; IRIS;		x
		Cancer, Endocrine system,		NTP 11th ROC); WA Appen1;		
106-89-8	Epichlorohydrin	Reproduction		Minnesota HRV	Epoxy resins, fumigant	
				Adains (CA Brown CE, LABC, IDIC)		
				Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC; EU Endocrine		v
		Cancer, Development,		Disruptor); WA Appen1;	Exhaust system scavenging for	Х
106-93-4	Ethylene dibromide	Reproduction		Minnesota HRL; Minnesota HRV	lead, fumigant, solvent	
100 33 1	Ettiylette distornae	Reproduction		iviiiiiesota iiite, iviiiiiesota iiitv	lead, ramigant, solvent	
					Solvent for fats, waxes or	
					resins, chemical intermediate	
				Maine (CA Prop 65; NTP	for pharmaceuticals,	
106-94-5	1-Bromopropane	Development, Reproduction		CERHR); WA Appen1	insecticides	
					Aerosol propellant, fuel,	
	butane (containing 0.1 % butadiene				natural gas, liquefied	x
106-97-8	(203-450-8))	Cancer		Maine (EU Carcinogen)	petroleum gas	
				Maine (CA Prop 65; IARC; EU		
		Carrage Barrela :		Carcinogen; IRIS; NTP 11th	Combustion, tobacco smoke,	х
106 00 0	1.2 Butadiana	Cancer, Development,		ROC); WA Appen1; Minnesota	polymers, synthetic rubber,	
106-99-0	1,3-Butadiene	Reproduction		HRV	plastics, resins	
107-02-8	2-Propenal (Acrolein)	Eyes, Respiratory system		WA Appen1; Minnesota HRV	Pesticide, biocide, mfg of plastics, perfumes	х



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Synthesis of allyl compounds,	
				WA Appen1; Minnesota HRL;	thermoset resins, and	
107-05-1	Allyl chloride	Nervous system		Minnesota HRV	pesticides	
				Maine (CA Prop 65; IRIS; NTP		
	Ethylene dichloride (1,2-			11th ROC); WA Appen1;	Solvent, degreaser compounds,	Х
107-06-2	Dichloroethane)	Cancer		Minnesota HRL	in cosmetics	
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC); WA Appen1; WA	Surface coatings, resins, acrylic	х
107-13-1	Acrylonitrile	Cancer		CHCC; Minnesota HRV	fibers	
					Production of chelating agents,	
		Eyes, Kidney, Respiratory system,			polyamide resins, gasoline and	x
107-15-3	Ethylenediamine	Skin		OECD - SIDS/SIAR; WA Appen1	oil additives	
					Manufacture of flavorings,	
107-18-6	2-Propen-1-ol (Allyl alcohol)	Kidney, Liver		OECD - SIDS/SIAR; WA Appen1	perfumes, fire retardants	X
107-19-7	Propargyl alcohol	Kidney, Liver		IRIS; WA Appen1	Corrosion inhibitor, rust inhibitor, prevent hydrogen embrittlement of steel	x
107-29-9	Acetaldehyde Oxime	Blood, Eyes, Spleen		OECD - SIDS/SIAR	Intermediate for agriculture chemical production	х
107-30-2	Chloromethyl methyl ether (technical grade)	Cancer		Maine (CA Prop 65; IARC; EU Carcinogen; IRIS; NTP 11th ROC); WA Appen1	Alkylating agent and solvent in water repellents mfg, chloromethylated compounds	
			х	Maine (Canada PBiT); WA		
107-51-7	Trisiloxane, octamethyl-	Posniraton system		Appen1	Plastic, films, lacquers, food packaging, safety glass interlay,	X
108-05-4	Vinyl acetate  Methyl isobutyl ketone (MIBK)	Respiratory system  Cancer		WA Appen1; Minnesota HRV  IARC 2B	polymers for coating solvent and denaturant in cosmetics, synthetic flavouring substances	
108-31-6	Maleic anhydride	Eyes, Kidney		HSDB; IRIS; WA Appen1	Chemical manufacturing, ingredient in bonding agents	х
108-38-3	m - xylene	Nervous system		HSDB; WA Appen1	Solvent, intermediate for dyes, pesticides, aviation fuel	х
108-45-2	m-Phenylenediamine	Liver		IRIS; WA Appen1	Dyes, rubber curing agents, textile fibers, hair dyes	х



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gricings. Tallo	Treater c. apo(c)	Diodocaliidia	5501.55(5)	Tanning, resins, resin	0.4 (0.0)
				Maine (EU Endocrine Disruptor);	<u> </u>	x
108-46-3	Resorcinol	Endocrine system		WA Appen1	pharmaceutical	
					Chamical intermediate in due	
108-60-1	Bis(2-chloro-1-methylethyl) ether	Blood		IRIS; WA Appen1	Chemical intermediate in dye mfg, pharmaceuticals, resins	
100-00-1	Bis(2-cilioro-1-illethylethyl) ether	Blood		IRIS; WA APPEIL	illig, pilarillaceuticais, resilis	
				Maine (OSPAR Chemicals of	Dye solvent, degreasing	
			х	Concern; OSPAR Chemicals for	solvent, dielectric fluid,	
108-70-3	1,3,5-trichlorobenzene			Priority Action); WA Appen1	lubricant additive, insecticide	
		Development, Respiratory system,			Dyestuffs, herbicides, optical	х
108-77-0	Cyanuric chloride	Skin		OECD - SIDS/SIAR	brighteners	^
		Fires Davidenment Immune		Maina (CA Bron 6E): MA		
		Eyes, Development, Immune		Maine (CA Prop 65); WA	Dues paints lacquers inks	х
108-88-3	Toluene	system, Nervous system, Respiratory system		Appen1; WA CHCC; Minnesota HRL; Minnesota HBV	Dyes, paints, lacquers, inks, fabric	
100-00-3	Toluene	Respiratory system		TINE, IVIIIIIIESULA TIDV	Manufacturing of phenol,	
					aniline, DDT, paints, dry-	x
108-90-7	Chlorobenzene	Liver		WA Appen1; Minnesota HRL	cleaning	
					In org synthesis, manufacture	
					of insecticides, plasticizers,	х
	L				emulsifying agents, dry-	
108-91-8	Cyclohexlamine	Reproduction, Skin		HSDB; IRIS; WA Appen1	cleaning soaps	
					Disinfectants, chemical	
		Development, Eyes, Respiratory		WA Appen1; WA CHCC;	intermediate for caprolactam,	х
108-95-2	Phenol	system		Minnesota HRL; Minnesota HRV		
109-09-1	2-Chloropyridine	Development, Liver		EPA - RBP	Chemical mfg	х
					Corrosion inhibitor,	
					surfactants, liquid soaps, water	x
109-55-7	3-Aminopropyldimethylamine	Respiratory system, Skin		OECD - SIDS/SIAR	treatment	
					Solvent, production of	
100.00.3	4 -0.1			OFFICE CIDE/CIAB, MA Append	organolithium compound,	х
109-69-3	1-chlorobutane	Reproduction		OECD - SIDS/SIAR; WA Appen1	butylating agent	
					Solvent for low viscosity	
				Maine (CA Prop 65); WA	cellulose acetate, natural	x
				Appen1; WA CHCC; Minnesota	resins, dyeing leather, perfume	
109-86-4	Ethylene glycol monomethyl ether	Blood, Cancer, Reproduction		HRV	fixative, photographic film	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Rubber chemicals, textile	
100.00.7	Diath. Jameira	Free Bassinstan system Chin		LICER, NTD	specialties, selective solvent,	х
109-89-7	Diethylamine	Eyes, Respiratory system, Skin		HSDB; NTP	dyes, resins	
					Chemical intermediate for	
					tetrahydrofuran, used in	х
				Maine (CA Prop 65; NTP 11th	production of pharmaceuticals,	~
110-00-9	Furan	Cancer		ROC); WA Appen1	agriculture chemicals	
				, 11	Solvent for nitrocellulose,	
					various gums, resins,	
	Ethylene glycol monomethyl ether			Maine (CA Prop 65); WA	silkscreening inks, industrial	
110-49-6	acetate	Development, Reproduction		Appen1	solvent	
					Solvent for extraction of oils,	х
440.54.0				WA Appen1; Minnesota HRL;	thermometers, cleaning agent,	
110-54-3	n-hexane	Nervous system		Minnesota HRV	abused chemical	
110-65-6	1,4-Butynediol	Eyes, Kidney, Liver, Respiratory system, Skin		HSDB; WA Appen1	Hydrogenation to butanaediol and betenediol intermediate of synthesis of polyols, insecticides, pharmaceuticals, paint, corrosion inhibitor	х
		Adrenal gland, Blood,				
		Development, Reproduction,		504 000	Industrial solvent, in lithium	Х
110-71-4	1,2-Dimethoxyethane, or Monoglyme)	Thymus		EPA - RBP	batteries, coatings	
110-80-5	Ethylene glycol monoethyl ether	Development, Reproduction		Maine (CA Prop 65); WA Appen1; WA CHCC; Minnesota HRV	Solvent for nitrocellulose, lacquers and dopes, in varnish removers, cleansing solution, printing inks	х
				Maine (CA Prop 65); WA	Pharmaceuticals, vitamins,	x
110-86-1	Pyridine	Cancer		Appen1	flavoring, water proofing	^
111-15-9	Ethylene glycol monoethyl ether acetate	Development, Reproduction		Maine (CA Prop 65); WA Appen1; Minnesota HRV	In automobile lacquers, chemical intermediate for synthesis of 2-ethoxyethyl cyanoacrylate, solvent in paints, inks	x
		Development, Skin		OECD- SIDS/SIAR	Chemical intermediate for surfactants, personal care products, pharmaceuticals, cleaning agents	x



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
		· · · · · · · · · · · · · · · · · · ·		000.100(0)	Coc champic(c) or class	or ryears,
					soaps, shampoos, cosmetics,	
					cleaners, chemical	
					intermediate, humectant,	
111-42-2	Diethanolamine	Cancer		IARC 2B	softening agent	
				(0. 0. 0. 10.0)	Reagent, solvent, scavenge	
111 44 4	Dia/2 ablancathy I) athan	Camana		Maine (CA Prop 65; IRIS); WA	lead deposits in gasoline,	х
111-44-4	Bis(2-chloroethyl)ether	Cancer		Appen1; Minnesota HRL	anesthetic, pesticide mfg	
					In hydraulic fluids, coupling	
					agent in water-based coatings,	х
111-76-2	2-butoxyethanol	Blood		WA Appen1; Minnesota HRV	acetate esters	ļ
	,			1		
					Specialty solvent, production of	x
					plastics, manufacture of	
111-96-6	(bis(2-methoxyethyl)ether (Diglyme)	Blood, Development		EPA - RBP	semiconductor chips, sealants	
442.40.0	1,2-bis(2-methoxyethoxy)ethane			REACH Substances of Very High		
112-49-2	(TEGDME; triglyme)	Reproduction		Concern	solvent Solvent for sulfur, acid gases,	
					various resins and dyes,	
					saponifying agent for acidic	х
112-57-2	Tetraethylenepentamine (TEPA)	Skin		OECD - SIDS/SIAR	materials	
	, , , , ,			Maine (CA Prop 65); WA		
114-26-1	Propoxur	Cancer		Appen1	Pesticide	
					Flame retardant in unsaturated	
	4,7-methanoisobenzofuran-1,3-dione,		Х		polyester resins, hardener for	x
445.07.5	4,5,6,7,8,8-hexachloro-3a,4,7,7a-			Maine (OSPAR Chemicals of	epoxy resins, polymers for	
115-27-5	tetrahydro-			Concern); WA Appen1	building materials	
115-28-6	Chlorendic acid	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Flame retardant	
113-20-0	Cinorendic acid	Curicel		Maine (EU PBT List; OSPAR	riame retardant	
				Chemicals of Concern; OSPAR		
			Х	Chemicals for Priority Action);	Pesticide (EPA phase-out	
115-29-7	Endosulfan	Endocrine system		WA Appen1	proposed)	
				Maine (EPA Final PBT Rule for		
				TRI; OSPAR Chemicals of		
			х	Concern; OSPAR Chemicals for		
445.00.5	5: 61			Priority Action); WA Appen1;		
115-32-2	Dicofol	Endocrine system		Oregon P3 List	Pesticide	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
115-39-9	Phenol, 4,4'-(3H-2,1-benzoxathiol- 3-ylidene)bis[2,6-dibromo-, S,S-dioxide		x	Maine (Canada PBiT); WA Appen1	Indicator dye	
115-40-2	Phenol, 4,4'-(3H-2,1-benzoxathiol- 3-ylidene)bis[2-bromo-6-methyl-, S,S-dioxide		х	Maine (Canada PBiT); WA Appen1	pH indicator dye	
115-96-8 116-06-3	Tris(2-chloroethyl) phosphate	Cancer, Reproduction		Maine (CA Prop 65); WA Appen1; WA CHCC; REACH Substances of Very High Concern WA Appen1; Minnesota HRL	Additive plasticizer and viscosity regulator with flame-retarding properties, in flexible urethane foam  Pesticide	
116-14-3	Tetrafluoroethylene	Nervous system  Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Preparation of propellants for food product aerosols, monomer for polytetrafluoroethylene resins	x
116-29-0	benzene, 1,2,4-trichloro-5-[(4- chlorophenyl)sulfonyl]-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticides (EPA reg. cancelled)	
116-66-5	1H-indene, 2,3-dihydro-1,1,3,3,5- pentamethyl-4,6-dinitro- (Moskene)		х	Maine (OSPAR Chemicals of Concern; Canada PBiT); WA Appen1	PAH - musk compound	
117-10-2	Dantron (Chrysazin; 1,8- Dihydroxyanthraquinone)	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Antioxidant synthetic lubricant, fungicide	
117-79-3	2-Aminoanthraquinone	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Chemical intermediate for dyes	
117-81-7	1,2-benzenedicarboxylic acid, bis(2-ethylhexyl) ester (DEHP) (DOP) (phthalate)	Cancer, Development, Endocrine system, Reproduction	х	Maine (CA Prop 65; IRIS; NTP 11th ROC; NTP CERHR; OSPAR Chemicals of Concern; EU Endocrine Disruptor; REACH Substance of Very High Concern); WA Appen1; Minnesota HRL-EPA-MCL	Plastics, imitation leather, rainwear, footwear, upholstery, flooring	х
117-82-8	Bis(2-methoxyethyl) phthalate (DMEP)	Reproduction		REACH Substances of Very High Concern	plasticizer	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC; OSPAR Chemicals of		
				Concern; EU Endocrine		
			x	Disruptor; EPA Final PBT Rule		
				for TRI; TRI PBT Chemical List;		
				EPA Priority PBT; NWM Priority		
				Chemicals; WA PBT List; Canada		
		Cancer, Development, Endocrine		PBiT); WA Appen1; WA CHCC;	Pesticide (EPA reg. cancelled),	
118-74-1	Hexachlorobenzene	system		Oregon P3 List; Minnesota HRL	plasticizer	
118-79-6	2,4,6-tribromophenol	Eyes, Kidney		OECD - SIDS/SIAR	Flame retardant	X
118-96-7	2,4.6-Trinitrotoluene (TNT)	Cancer		CA Prop 65; WA Appen1	Explosive	
				Maine (CA Prop 65); WA	Dyeing furs, hair dyes, etching	
119-34-6	4-Amino-2-nitrophenol	Cancer		Appen1	copper printing plates	
	6,6'-di-tert-butyl-2,2'-methylenedi-p-				Stabilizer, antioxidant in rubber	x
119-47-1	cresol	Reproduction		OECD - SIDS/SIAR	industry	^
					Fixative for heavy perfumes,	
					paints, lacquers, varnish,	Х
					cosmetics, UV absorbers,	
119-61-9	Benzophenone	Kidney, Liver		NTP	occurs naturally in some foods	
	1,2,3,4-Tetrahydronaphthalene				Solvent and industrial	х
119-64-2	(Tetralin)	Blood, Skin, Spleen		OECD - SIDS/SIAR	intermediate	
				AACTO (CA Door CE NITO 441)	Character Links and disks a second	
110.00.4	2.21.00.00.00.00.00.00.00.00.00.00.00.00.00			Maine (CA Prop 65; NTP 11th	Chemical intermediate, used	
119-90-4	3,3'-Dimethoxybenzidine (o-Dianisidine)	Cancer		ROC); WA Appen1	in dyeing leather, paper plastic	
				AASS (CA Days CE NITO 441)	Chemical intermediate for azo	
110 02 7	2.21 Discreth allocations (author Talidian)	Canada		Maine (CA Prop 65; NTP 11th	dyes, curing agent for urethane	
119-93-7	3,3'-Dimethylbenzidine (ortho-Tolidine)	Cancer		ROC); WA Appen1; WA CHCC	resins	
				Maine (NIM/M Driesity)		
				Maine (NWM Priority Chemicals; EU PBT List; OSPAR		
			· ·	Chemicals; EU PBT List; USPAR Chemicals of Concern; REACH		
			Х	Substances of Very High	Production of anthraquinone,	
				, ,	· ·	
120-12-7	Anthracene			Concern); WA Appen1; Oregon P3 List; Minnesota HRL	for dyes, syn fibers, plastics, dyes,	
120-12-7	Antinacene			I 3 List, Willinesold FINE	uyes,	
				Maine (EU Endocrine Disruptor);		
120-47-8	Ethyl 4-hydroxybenzoate	Endocrine system		WA Appen1; WA CHCC	Preservative	
120-47-0	Ethyl + hydroxybenzoate	Endocrine system	l .	I WA Appent, WA CITCO	i i caci vative	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; NTP 11th		
120-71-8	p-Cresidine	Cancer		ROC); WA Appen1	Chemical intermediate for dyes	
					Antioxidant in rubber,	
					chemical, photographic, dye,	
				144 (CA Dana (CE) 144A	fat, oil, anti-fungal	х
120.00.0	Catadad	Control		Maine (CA Prop 65); WA	preservative, photographic	
120-80-9	Catechol	Cancer		Appen1	developer	
				Maine (NWM Priority		
				Chemicals; EU PBT List; OSPAR		
			x	Chemicals of Concern; OSPAR		х
				Chemicals for Priority Action);	Dye carrier, degreasing agent,	
120-82-1	1,2,4-Trichlorobenzene			WA Appen1	pesticide (not EPA registered)	
120 02 1	1,2,1 Themore defize the			WWW.ppen1	pesticide (not El 71 legistered)	
					Synthesis of antihelminthics,	
					feedstock for mothproofing	
					antiseptics, organic chemical	
120-83-2	2,4-Dichlorophenol	Immune system		WA Appen1; Minnesota HRL	synthesis	
		·		Maine (OSPAR Chemicals of	Chemical intermediate for aryl	
120-95-6	phenol, 2,4-bis(1,1-dimethylpropyl)-		Х	Concern); WA Appen1	acid chlorides	х
			x	Maine (CA Prop 65; OSPAR	Chemicals intermediate for	
			^	Chemicals of Concern); WA	gelatinizing and waterproofing	
	benzene, 1-methyl-2,4-dinitro- 9 (2,4-			Appen1; REACH Substances of	agent, explosives intermediate,	
121-14-2	Dinitrotoluene)	Cancer, Reproduction		Very High Concern	rubber chemicals, plastics mfg	
121-69-7	N-N-Dimethylaniline	Blood, Spleen		IRIS; WA Appen1	Manufacture of dyes, vanillin	
121-69-7	Malathion	Nervous system		IRIS; WA Appen1	Pesticide	
121-73-3	Ividiatifioff	Nervous system		ikis, wa appeni	Explosive, rat poison, base	
121-82-4	Cyclonite (RDX)	Reproduction		ATSDR; HSDB; WA Appen1	charge for detonators	х
121 02 4	Cyclotice (NDA)	Reproduction		Maine (EU Endocrine Disruptor);	charge for actoriators	
122-14-5	Fenitrothion	Endocrine system		WA Appen1	Pesticide	
				WA Appen1; Minnesota HRL-		
122-34-9	Simazine	Blood		EPA -MCL	Pesticide	
					Mfg dyes, rubber antioxidants	x
122-39-4	N,N-Diphenylamine	Kidney, Liver		IRIS; WA Appen1	and stabilizers	
122-42-9	Propham	Nervous system, Spleen		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Stabilizer of halogenated	
					compounds, plasticizer for	
				Maine (CA Prop 65); WA	epoxy resins, monomer for	
122-60-1	Phenyl glycidyl ether	Cancer		Appen1	photoreactive polymers	
					Chemical intermediate for	
					benzidine, synthesis of	
	Hydrazobenzene (1,2-			Maine (CA Prop 65; IRIS; NTP	phenylbutazone, additive to	
122-66-7	Diphenylhydrazine)	Cancer		11th ROC); WA Appen1	motor oil	
					Manufacture of propionic acid,	x
123-38-6	Propionaldehyde	Skin		HSDB; WA Appen1	polyvinyl plastics	^
					Intermediate in synthesis of	
					pesticides, methyl isocyanate	х
123-39-7	N-Methylformamide	Development, Liver		HSDB	mfg	
					Rubber accelerators, synthesis	Х
123-72-8	Butyraldehyde	Eyes, Respiratory system, Skin		HSDB	of resins, solvents, plasticizers	
					Foaming agent for plastics,	
					blowing agent for synthetic,	Х
123-77-3	Azodicarboxamide	Respiratory system, Skin		HSDB	natural rubber	
					Stabilizer for chlorinated	
				Maine (CA Prop 65; IRIS; NTP	solvents, solvent, wetting and	x
				11th ROC); WA Appen1; WA	dispersing agent, solvent of	
123-91-1	1,4-Dioxane	Cancer, Eyes, Respiratory system		CHCC; Minnesota HRV	pulping wood	
124 12 2	S			Lucan Lucan	Accelerator in vulcanizing	х
124-40-3	Dimethylamine	Eyes, Respiratory system, Skin		HSDB; WA Appen1;	rubber, detergents, pesticides	
124 12 1	67				Chemical intermediate,	
124-48-1	Dibromochloromethane	Liver		WA Appen1; Minnesota HRL	reagent	
124 50 2	Monomethylarsonic acid (methylarsonic			14 DC 2D	Carrage has detected a	
124-58-3	acid; MMA) (arsenic compound)	Cancer		IARC 2B	former herbicide	
	Phenol, 4,4'-(3H-2,1-benzoxathiol- 3-			Maine (Canada BRIT), MA		
125 21 5	ylidene)bis[2,5-dimethyl-, S,S-dioxide		Х	Maine (Canada PBiT); WA	Bassart	
125-31-5	(Xylenol Blue)			Appen1	Reagent	
					Solvent for aromatics	
		Development, Kidney,			extraction in petroleum refining, curing agent,	х
126.22.0	Totrahydrathianhana 1.1 diayida	• • • • • • • • • • • • • • • • • • • •		OECD SIDS/SIAP	o.	
126-33-0	Tetrahydrothiophene 1,1-dioxide	Reproduction		OECD - SIDS/SIAR	pharmaceutical	
126-72-7	Tris/2 2 dibromonronal abasebate /tailal	Cancar		Maine (CA Prop 65; IARC; NTP	Elamo rotardant	
120-/2-/	Tris(2,3-dibromopropyl)phosphate (tris)	Cancer		11th ROC); WA Appen1	Flame retardant	
126 72 9	Tributul phocphata (TDD)	Pladder		OECD SIDS/SIAD, MAAAA	Plasticizer, hydraulic fluid,	x
126-73-8	Tributyl phosphate (TBP)	Bladder		OECD - SIDS/SIAR; WA Appen1	antifoam agent, extratant	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
			,		In preparation of	, , , ,
					homopolymers and	
					copolymers, vinyl nitrile	
126-98-7	Methylacrylonitrile	Liver		HSDB; IRIS; WA Appen1	monomer	
				Maine (CA Prop 65; NTP 11th	Component of adhesives,	
126-99-8	Chloroprene	Cancer		ROC); WA Appen1	artificial rubber mfg, neoprene	
				Maine (CA Prop 65; IARC; NTP	Textile industry for dry-	
	Tetrachloroethylene	Cancer, Eyes, Nervous system,		11th ROC); WA Appen1; WA	cleaning, processing, finishing,	x
127-18-4	(Perchloroethylene)	Respiratory system		CHCC; Minnesota HRV	scouring, solvent	
				REACH Substances of Very High		
127-19-5	N,N-dimethylacetamide (DMAc)	Reproduction		Concern	solvent	
				Maine (CA Prop 65); WA		
128-03-0	Potassium dimethyldithiocarbamate	Development		Appen1	Pesticide	
					Vulcanizing agent, corrosion	
				Maine (CA Prop 65); WA	inhibitor, water treatment,	Х
128-04-1	Sodium dimethyldithiocarbamate	Development		Appen1	biocide	
					Antioxidant for synthetic	
	2,6-di-tertbutyl-p-cresol (BHT)				rubbers, plastics, soaps, used in	х
128-37-0	Butylated Hydroxytoluene	Liver, Thyroid		OECD - SIDS/SIAR	packaging	
			х	Maine (OSPAR Chemicals of		
128-63-2	pyrene, 1,3,6,8-tetrabromo-		,	Concern); WA Appen1	PAH	
	perylo[3,4-cd:9,10-c'd']dipyran-1,3,8,10-	•	х	Maine (OSPAR Chemicals of	Paint, lacquers, varnishes	
128-69-8	tetrone			Concern); WA Appen1	(pigment)	
	9,10-anthracenedione, 1-amino-2-					
	bromo-4-[(4-methylphenyl)amino]- (CI		х	Maine (OSPAR Chemicals of		
128-83-6	62100)			Concern); WA Appen1	Pigment	
				Maine (NWM Priority		
			x	Chemicals; OSPAR Chemicals of		
120.00.0		la l		Concern); WA Appen1; Oregon	Research, optical brighteners	
129-00-0	Pyrene	Kidney		P3 List; Minnesota HRL	and dyes	
120 15 7	2-Methyl-1-nitroanthraquinone (of	Consor		Maine (CA Prop 65); WA	Droporation of duca	
129-15-7	uncertain purity)	Cancer		Appen1	Preparation of dyes	
120 42 1	1 Undrow onthropping	Consor		Maine (CA Prop 65); WA	Production of dyes and	
129-43-1	1-Hydroxyanthraquinone benzenamine, 4,4'-	Cancer		Appen1	pharmaceuticals	
	(phenylmethylene)bis[N,N-dimethyl-		V	Maine (OSPAR Chemicals of		
129-73-7	(Leucomalachite green)		Х	Concern); WA Appen1	Dvo	
123-13-1	(Leucomaiachite green)			Concerny, WA Appent	Dye Solvent, plasticizer,	
				WA Appen1; WA CHCC;	pharmaceutical, pesticide (EPA	x
131-11-3	Dimethyl phthalate	Kidney		Minnesota HRL	reg. cancelled)	Α .
121-11-2	pimentyi pitulalate	Riuney		INITITIESOLA LIVE	reg. canceneu)	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
124 17 0	Diall Labels late	Mid-		OF CD CIDC/CIAD	Plasticizer, stabilizer, dye	x
131-17-9	Diallyl phthalate	Kidney, Liver		OECD - SIDS/SIAR	carrier	
121 10 0	Di-n-pentylphthalate (DPP) =	Endossino sustam		Maine (EU Endocrine Disruptor);		
131-18-0	Dipentylphthalate	Endocrine system		WA Appen1	Plasticizer	
	Benzophenone-2 (Bp-2), 2,2',4,4'-			Maine (EU Endocrine Disruptor);		
131-55-5	tetrahydroxybenzophenone	Endocrine system		WA Appen1; WA CHCC	UV screen	
131 33 3	2,4-Dihydroxybenzophenon =	Endocrine system		Maine (EU Endocrine Disruptor);		
131-56-6	Resbenzophenone	Endocrine system		WA Appen1	UV screen	
				Maine (EU Endocrine Disruptor);		
131-70-4	Mono-n-butylphthalate (MPB) (MBuP)	Endocrine system		WA Appen1	Plasticizer	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,				
131-89-5	Dinex	Eyes		IRIS; WA Appen1	Pesticide (not EPA registered)	
				Maine (CA Prop 65); WA		
132-27-4	o-Phenylphenate, sodium	Cancer		Appen1	Pesticide	
				Maine (NWM Priority	Heat transfer oil, dye, printing	
132-64-9	Dibenzofuran		Х	Chemicals); WA Appen1	textiles	
			X		From petroleum, in cosmetic	
			,	Maine (OSPAR Chemicals of	and pharmaceuticals,	
132-65-0	Dibenzothiophene			Concern); WA Appen1	intermediate	
400.05.0				Maine (CA Prop 65); WA		
133-06-2	Captan	Cancer		Appen1	Pesticide	
422.07.2	Educa			Maine (CA Prop 65; IRIS); WA	D. attacks	
133-07-3	Folpet	Cancer		Appen1	Pesticide	
				Maine (EU PBT; OSPAR Chemicals of Concern; Canada	Dontings for synthetic and	
133-49-3	Pentachlorobenzenethiol		Х	PBiT); WA Appen1	Peptizer for synthetic and natural rubbers	
133-43-3	Pentachiorobenzenethior			r Birry, WA Appelli	Tiaturai rubbers	
133-90-4	Chloramben	Liver		Minnesota HRL; WA Appen1	Pesticide (EPA reg. cancelled)	
133 30 1	Cinoramben			Maine (CA Prop 65; NTP 11th	Chemical intermediate for dyes	
134-29-2	o-Anisidine hydrochloride	Cancer		ROC); WA Appen1	and pharmaceuticals	
	, , , , , , , , , , , , , , , , , , , ,			Maine (CA Prop 65); WA	Chemical intermediate for	
134-32-7	1-Naphthylamine	Cancer		Appen1	dyes, agriculture chemicals	
				Maine (CA Prop 65; NTP 11th	-	
135-20-6	Cupferron	Cancer		ROC); WA Appen1	Reagent	
	2-Naphthalenecarboxamide, N-(5-					
	chloro-2-methylphenyl)-3-hydroxy-		x	Maine (Canada PBiT); WA		
135-63-7	(Naphthanilid KB)			Appen1		
	Benzenamine, 4,4'-methylenebis[N,N-		x	Maine (OSPAR Chemicals of		
135-91-1	diethyl-		^	Concern); WA Appen1	Chemical intermediate	



			Persistent, Bioaccumulative,			
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			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; NTP 11th	Organic chemical synthesis,	or i yoursy
136-35-6	Diazoaminobenzene	Cancer		ROC); WA Appen1	dyes, insecticide	
	Di-n-propyl isocinchomeronate (MGK			Maine (CA Prop 65); WA		
136-45-8	Repellent 326)	Cancer		Appen1	Pesticide	
	Taking an akhari khirang ada ada (TNATO)	Dadwaicht Davelannach Ell		Maine (FILE adentine Discounted)	Farmulas airestia a est un labora	
427.26.0	Tetramethyl thiuram disulfide (TMTD);	Body weight, Development, EU		Maine (EU Endocrine Disruptor);		х
137-26-8	(Thiram)	Endocrine Disruptor, Liver, Skin		WA Appen1; EPA - HC Maine (CA Prop 65; EU	products and tires, pesticides	
		Cancer, Development, Endocrine		Endocrine Disruptor); WA		
137-42-8	Metham sodium	system		Appen1	Pesticide	
137-42-0	Mediani sodium	System		Maine (CA Prop 65); WA	i cadduc	
138-93-2	Disodium cyanodithioimidocarbonate	Development		Appen1	Antimicrobial agent	
130 33 2	Disocialii eyanoaitiioiiiiaeearsonate	Бечегоритене		Преп	/ weimer oblar agent	
				Maine (CA Prop 65; NTP 11th	Chelating and sequestering	
139-13-9	Nitrilotriacetic acid	Cancer		ROC); WA Appen1	agent, detergents,	
139-40-2	Propazine	Body Weight		IRIS; WA Appen1	Pesticide	
	1,4-benzenediamine, N,N'-bis(1-ethyl-3-			Maine (OSPAR Chemicals of		
139-60-6	methylpentyl)-		Х	Concern); WA Appen1	Fuel additive	
				Maine (CA Prop 65; NTP 11th	Chemical intermediate for	
139-65-1	4,4'-Thiodianiline	Cancer		ROC); WA Appen1	dyes, pharmaceutical	
	5-(Morpholinomethyl)-3-[(5-					
	nitrofurfurylidene)-amino]-2-			Maine (CA Prop 65); WA		
139-91-3	oxazolidinone (Furaltadone)	Cancer		Appen1	Animal feed additive	
				Maine (CA Prop 65; IRIS); WA		
140-57-8	Aramite	Cancer		Appen1	Antimicrobial	
				Maine (EU Endocrine Disruptor;		
			x	OSPAR Chemicals of Concern;		x
	4-(1,1,3,3-Tetramethylbutyl)phenol (p-			OSPAR Chemicals for Priority	Chemical intermediate for	
140-66-9	octaphenol)			Action); WA Appen1; WA CHCC	surfactants	
				Maine (CA Prop 65); WA		
140-67-0	Estragole	Cancer		Appen1; WA CHCC	Flavoring, fragrance	х
				Maine (CA Prop 65); WA	Component in latex paints, in	
140-88-5	Ethyl acrylate	Cancer		Appen1	plastics and coatings	х
141-66-2	Dicrotophos	Development		IRIS; WA Appen1	Pesticide	
				Maine (CA Prop 65); WA		
142-59-6	Nabam	Development		Appen1	Pesticide	
	2,4-Hexadienal (89% trans, trans			Maine (CA Prop 65); WA		
142-83-6	isomer; 11% cis, trans isomer)	Cancer		Appen1		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
Cris Humber	Circinical reality	reditir enapolite(s)	Dioaccamalative (VI VD)	334.55(3)	Cleaning metals, dyes,	or 4 years,
143-33-9	Sodium cyanide	Cardiovascular system, Liver, Nervous system, Thyroid		ATSDR; HSDB; WA Appen1	electroplating solutions, brighteners	х
1.5 55 5	Journal of annual	iterrous system, myrons		,	a. ig. iteries	
143-50-0	Chlordecone (Kepone)	Cancer, Development, Endocrine system	х	Maine (CA Prop 65; NTP 11th ROC; EU Endocrine Disruptor; WA PBT List; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	Pesticide (not EPA registered), kelevan mfg	
	Benzene, 1-(1,1-dimethylethyl)-3,4,5-		Х	Maine (Canada PBiT); WA		
145-39-1	trimethyl-2,6-dinitro- (Musk tibetine)			Appen1; Oregon P3 List	Fragrances	
145-73-3	Endothal	Gastrointestinal system		IRIS; WA Appen1	Pesticide	
					Corrosion inhibitor, rubber	
148-18-5	Ditiocarb sodium	Body Weight, Eyes		IRIS; WA Appen1	accelerator	
440.02.2	Malabala	Control Broad control		Maine (CA Prop 65; IARC; NTP		
148-82-3	Melphalan	Cancer, Development		11th ROC); WA Appen1	Insect chemosterilant and drug	
149-30-4	Mercaptobenzothiazole	Eyes, Skin		HSDB	Fungicide, vulcanization agent for rubber, pharmaceutical	х
				CA Prop 65; WA Appen1; WA	Cosolvent in pesticides,	· ·
149-57-5	2-Ethylhexanoic acid	Development		CHCC	defoamer	Х
					Pesticide defoliant (EPA reg.	
150-50-5	Merphos	Nervous system		IRIS; WA Appen1	cancelled)	Х
		Body Weight, Nervous system,				
151-50-8	Potassium cyanide	Thyroid		IRIS; WA Appen1	Electroplating, steel hardening	
151-56-4	Ethyleneimine	Cancer		Maine (CA Prop 65); WA Appen1	Manufacture of melamine, paper and textile chemicals, adhesive binders, insect chemosterilizaton	
				Maine (CA Prop 65); WA		
153-78-6	2-Aminofluorene	Cancer		Appen1	Research	
154-42-7	Thioguanine	Development		Maine (CA Prop 65); WA Appen1	For genetic marker in research, pharmaceutical	
156-10-5	p-Nitrosodiphenylamine	Cancer		Maine (CA Prop 65); WA Appen1	Accelerator for rubber vulcanization, chemical intermediate for dyes	
156-59-2	cis-1,2-Dichloroethene	Blood		WA Appen1; Minnesota HRL	Solvent, chemical intermediate	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	CHEIIICAI IVAIIIE	Health enupoliti(s)	bioaccumulative (VFVb)	30uice(3)	Ose example(s) of class	or 4 years)
					Solvent for waxes, resins, and	x
156-60-5	trans-1,2-Dichloroethylene	Liver		WA Appen1; IRIS; Minnesota HRL	acetylcellulose, solvent for fats, phenols, camphor	
130-00-3	trans-1,2-Dichiol detriviene	Livei		TINL	рненоїз, сатірної	
				Maine (CA Prop 65; NTP 11th		
			х	ROC; EPA Final PBT Rule for TRI;		
189-55-9	Benzo(r,s,t)pentaphene	Cancer		WA PBT List; OSPAR Chemicals of Concern); WA Appen1	Research, experimental carcinogen	
189-33-9	Benzo(1,5,t)pentaphene	Cancer		or concerny, WA Appeni	carcinogen	
				Maine (CA Prop 65; NTP 11th		
			х	ROC; EPA Final PBT Rule for TRI;		
189-64-0	Dibenzo(a,h)pyrene	Cancer		OSPAR Chemicals of Concern; WA PBT LIST); WA Appen1	exhaust, tobacco smoke, urban air	
183-04-0	Disenzo(a,n)pyrene	Cancer		Maine (OSPAR Chemicals of	all	
191-07-1	Coronene		Х	Concern); WA Appen1		
			х	Maine (EPA Final PBT Rule for TRI; TRI PBT Chemical List; NWM Priority Chemicals; WA PBT List; OSPAR Chemicals of		
191-24-2	Benzo(g,h,i)perylene			Concern); WA Appen1; Oregon P3 List	Research, combustion by- product	
191-26-4	dibenzo[def,mno]chrysene		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Experimental carcinogen, in exhaust, cigarette smoke	
191-30-0	Dibenzo(a,i)pyrene	Cancer	x	Maine (CA Prop 65; IARC; NTP 11th ROC; EPA Final PBT Rule for TRI; OSPAR Chemicals of Concern); WA Appen1	Experimental carcinogen, combustion by-product	
192-65-4	Dibenzo(a,e)pyrene	Cancer	x	Maine (CA Prop 65; NTP 11th ROC; EPA Final PBT Rule for TRI; WA PBT List; OSPAR Chemicals of Concern); WA Appen1	Experimental carcinogen, in fossil fuels, tobacco smoke, gasoline exhaust	
132 03.4	Discrizo(a,c)pyrene	Carreer		Maine (OSPAR Chemicals of	Biochemical research, in coal	
192-97-2	benzo[e]pyrene		Х	Concern); WA Appen1	tar	
102 20 5	Indepo(4.2.2 ad/myrana	Consor	x	Maine (CA Prop 65; IRIS; NTP 11th ROC; EPA Final PBT Rule for TRI; WA PBT List); WA	Research, combustion by-	
193-39-5	Indeno(1,2,3-cd)pyrene	Cancer		Appen1; Oregon P3 List	product	



			1			
CAS Number	Chemical Name	Health and naint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)		Hee overmole(s) or elect	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (VPVB)	Source(s)	Use example(s) or class	oi 4 years)
194-59-2	7H-Dibenzo(c,g)carbazole	Cancer	х	Maine (CA Prop 65; NTP 11th ROC; EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Combustion by product	
131 33 2	711 21301120(0,6)0411342310	Currer		Maine (OSPAR Chemicals of	Compastion by product	
195-19-7	Benzo[c]phenanthrene		Х	Concern); WA Appen1		
198-55-0	Perylene [Polycyclic aromatic hydrocarbons (PAHs)]		х	Maine (WA PBT List; OSPAR Chemicals of Concern); WA Appen1	Organic semiconductors mfg	
205-82-3	Benzo(j)fluoranthene	Cancer	x	Maine (CA Prop 65; NTP 11th ROC; EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Cancer research	
205-99-2	Benzo(b)fluoranthene	Cancer	х	Maine (CA Prop 65; NTP 11th ROC; EPA Final PBT Rule for TRI; IRIS; WA PBT List); WA Appen1; Oregon P3 List	Research, combustion by-	
206-44-0	Benzo(j,k)fluorene (fluoranthene)	Kidney, Liver	х	Maine (EPA Final PBT Rule for TRI; WA PBT List; OSPAR Chemicals of Concern); Oregon P3 List; WA Appen1; Minnesota HRL	Lining materials from coal tar and asphalt, research, fluorescent dyes, stabilizer in epoxy adhesives	
207-08-9	Benzo(k)fluoranthene	Cancer	х	Maine (CA Prop 65; IRIS; NTP 11th ROC; EPA Final PBT Rule for TRI; WA PBT List; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	Combustion by-product	
208-96-8	Acenaphthylene		х	Maine (NWM Priority Chemicals); WA Appen1	From oil furnace black	
215-58-7	Benzo[b]triphenylene		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Combustion by-product	
217-59-4	Triphenylene		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Combustion by-product	
218-01-9	Benzo(a)phenanthrene	Cancer	х	Maine (CA Prop 65; IRIS; EPA Final PBT Rule for TRI; WA PBT List; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List Maine (OSPAR Chemicals of	Distillation of coal tar	
224-41-9	Dibenz[a,j]anthracene		х	Concern); WA Appen1	Combustion	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Treater enapolités	Dioaccamalative (vi vb)	3001100(3)	OSC CAUTIFIC(S) OF Cluss	or 4 years)
				Maine (CA Prop 65; NTP 11th		
			Х	ROC; EPA Final PBT Rule for TRI;	Biochemical research, tobacco	
224-42-0	Dibenz(a,j)acridine	Cancer		WA PBT List); WA Appen1	smoke and urban air	
			x	Maine (CA Prop 65; NTP 11th	Dischausiaal usaasuah tahasas	
226-36-8	Dibenz(a b)acridine	Cancar		ROC; EPA Final PBT Rule for TRI;	Biochemical research, tobacco smoke and urban air	
226-36-8	Dibenz(a,h)acridine	Cancer		WA PBT List); WA Appen1	smoke and urban air	
					Coumarone-indene resins	
				Maine (CA Prop 65); WA	(plastic) mfg, water resistance,	
271-89-6	Benzofuran	Cancer		Appen1	processing coal tar into coal oil	
				Maine (EU PBT List; OSPAR		
			v	Chemicals of Concern; OSPAR		v
			Х	Chemicals for Priority Action;	Intermediate in production of	х
				REACH Substances of Very High	polyamides, polyesters, nylon	
294-62-2	Cyclododecane			Concern); WA Appen1	12	
	4,7-methanoisobenzofuran,					
207 70 0	1,3,4,5,6,7,8,8-octachloro-1,3,3a,4,7,7a-		Х	Maine (OSPAR Chemicals of		
297-78-9	hexahydro-	Disad		Concern); WA Appen1	Insecticide	
298-00-0 298-04-4	Methyl parathion Disulfoton	Blood Nervous system		IRIS; WA Appen1 WA Appen1; Minnesota HRL	Pesticide Insecticide	
238-04-4	8-Methoxypsoralen with ultraviolet A	Nei vous system		Maine (CA Prop 65; IARC; NTP	Photoactive agent,	
298-81-7	therapy	Cancer		11th ROC); WA Appen1	pharmaceutical	
300-76-5	Naled	Nervous system		IRIS; WA Appen1	Pesticide, disinfectant	
		,		Maine (CA Prop 65; EU		
				Reproductive toxicant); WA	Mordent, varnishes, lead	
301-04-2	Lead acetate	Cancer, Reproduction		Appen1	driers, chrome pigments	
				Maine (CA Prop 65); WA		
301-12-2	Oxydemeton methyl	Reproduction		Appen1	Pesticide	
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC); WA Appen1;	Oxygen scavenger, propellant,	x (2006)
302-01-2	Hydrazine	Cancer		Minnesota HRV	reagent, reducing agent	
					chamical reagant	
302-17-0	Chloral Hydrate	Cancer		IARC 2A	chemical reagent, manufacture of DDT, sedative	
302-17-0	Cilioral Tiyurate	Cancer		Maine (CA Prop 65); WA	or DD1, Seudlive	
302-79-4	All-trans retinoic acid	Development		Appen1	Research	
332 /3 4	c. and recinore deld	эстеюринен		Maine (CA Prop 65); WA		
303-34-4	Lasiocarpine	Cancer		Appen1	Research	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; NTP 11th	Research, natural metabolite of	
303-47-9	Ochratoxin A	Cancer		ROC); WA Appen1	molds - toxic	
		Adrenal, Eyes, Liver, Pancreas,			Refrigerant, air conditioning,	x
306-83-2	2,2-Dichloro-1,1,1-trifluoroethane	Reproduction		EPA - HC	fire fighting	^
			x	REACH Substances of Very High	prodction of fluoropolymers	
307-55-1	Tricosafluorododecanoic acid			Concern (vPvB)	and fluorotelomers	
				AASSA (CA DASS CE IDIC EDA		
				Maine (CA Prop 65; IRIS; EPA		
			x	Final PBT Rule for TRI; TRI PBT		
				Chemical List; EPA Priority PBT;		
200 00 2	Aldrin	6		WA PBT List; OSPAR Chemicals	Docticido (FDA nos concellod)	
309-00-2	Aldrin	Cancer		of Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
215 22 0	Monocrotaline	Consor		Maine (CA Prop 65); WA	Due pharmacoutical	
315-22-0	alpha-Hexachlorocyclohexane (alpha-	Cancer		Appen1 Maine (IRIS); WA Appen1;	Dye, pharmaceutical Component of benzene	
319-84-6	, , , , , , , , , , , , , , , , , , , ,	Consor	x	, , , , , ,	hexachloride	
319-84-0	HCH)	Cancer		Oregon P3 List Maine (OSPAR Chemicals of	nexacmonde	
				Concern; EU Endocrine		
			x	Disruptor); WA Appen1; Oregon		
319-85-7	beta-HCH	Endocrine system		P3 List	Pesticide (not EPA registered)	
319-83-7	Deta-fich	Lildocrine system		r 3 List	resticide (not LFA registered)	
	phosphonothioic acid, ethyl-, O-ethyl O-		x	Maine (OSPAR Chemicals of		
327-98-0	(2,4,5-trichlorophenyl) ester			Concern); WA Appen1	Pesticide (not EPA registered)	
327 30 0				Maine (CA Prop 65); WA	r conside (not in the Biscerea)	
330-54-1	Diuron	Cancer		Appen1	Pesticide	
				Maine (CA Prop 65; EU		
				Endocrine Disruptor); WA		
			х	Appen1; Oregon P3 List;		
330-55-2	Linuron	Blood, Cancer, Endocrine system		Minnesota HRL	Pesticide	
		,		Maine (CA Prop 65); WA		
331-39-5	Caffeic acid	Cancer		Appen1	Natural compound, research	
333-41-5	Diazinon		Х	WA Appen1; Oregon P3 List	Pesticide	
				Maine (OSPAR Chemicals of	Electrical engineering	
335-57-9	heptane, hexadecafluoro-		Х	Concern); WA Appen1	applications	
		Development, Immune system,	v			
335-66-0	Perfluorooctanoic Acid (PFOA) and Salts	Liver	Х	Minnesota HRL	Anti-stain coatings	
		Development, Immune system,	х			
335-67-1	Perfluorooctanoic Acid (PFOA) and Salts		^	Oregon P3 List; Minnesota HRL	Anti-stain coatings	
		Development, Immune system,	х			
335-93-3	Perfluorooctanoic Acid (PFOA) and Salts	Liver	~	Minnesota HRL	Anti-stain coatings	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Nulliber	Chemical Name	Development, Immune system,	Bloaccullulative (VPVB)	Source(s)	Ose example(s) of class	or 4 years)
335-95-5	Perfluorooctanoic Acid (PFOA) and Salts		x	Minnesota HRL	Anti stain coatings	
333-33-3	remuorooctanoic Acid (F1 OA) and Saits	Livei		Willinesota Tine	Anti-stain coatings Electrical engineering	
			x	Maine (OSPAR Chemicals of	applications, solvent, heat	
355-42-0	hexane, tetradecafluoro- (Perflexane)		×	Concern); WA Appen1	transfer	
555-42-0	hexane, 1,1,1,2,2,3,3,4,4,5,5,6,6-			Maine (OSPAR Chemicals of	transiei	
355-43-1	tridecafluoro-6-iodo-		x	Concern); WA Appen1	Used in chemical synthesis	
333-43-1	ti idecalidol 0-8-10d0-			Maine (CA Prop 65); WA	osed in chemical synthesis	
373-02-4	Nickel acetate	Cancer		Appen1	Mordant in the textile industry	
375-22-4	Perfluorobutyrate (PFBA)	Development, Liver, Thyroid		Minnesota HBV	Use in photographic film	
373-22-4	1-butanesulfonyl fluoride,	Development, Liver, myrold		Maine (OSPAR Chemicals of	Chemical synthesis, chemical	
375-72-4	1,1,2,2,3,3,4,4,4-nonafluoro-		х	Concern); WA Appen1	intermediate	
375-72-4	Perfluorobutane sulfonate (PFBS)	Blood, Kidney, Liver		Minnesota HBV	Surfactant	
375-73-5	Perfluorobutane sunonate (PFBS)  Perfluoroheptanoic acid [PFHpA]	Blood, Kluffey, Liver		Oregon P3 List	Anti-stain coatings	
			X	-	-	
375-95-1	Perfluorononanoic acid [PFNA]		Х	Oregon P3 List	Anti-stain coatings	
376-06-7	Heptacosafluorotetradecanoic acid		х	REACH Substances of Very High Concern (vPvB)	prodction of fluoropolymers and fluorotelomers	
			x	Maine (Canada PBiT); WA		
379-52-2	Stannane, fluorotriphenyl-		^	Appen1	Antifouling	
420-04-2	Cyanamide	Liver, Skin		HSDB	Raw materials for melamine and guanidine, herbicide	х
423-50-7	1-hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Chemical synthesis, chemical intermediate	
427-45-2	stannane, fluorotris-p-chlorophenyl-		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
434-90-2	Decafluorobiphenyl		x	Oregon P3 List	Analytical internal standard	
				Maine (CA Prop 65; NTP 11th	Pesticide (EPA reg. cancelled),	
443-48-1	Metronidazole	Cancer		ROC); WA Appen1	pharmaceutical	
110 10 1		Nervous system, Thyroid, Weight		, and the second	Fuel gas for welding and	
460-19-5	Cyanogen	Loss		IRIS; WA Appen1	cutting	
465-73-6	Isodrin		х	Maine (EPA Final PBT Rule for TRI; TRI PBT Chemical List; OSPAR Chemicals of Concern; OSPAR Chemicals for Priority Action); WA Appen1; Oregon P3 List	Pesticide (not EPA registered)	
475-26-3	benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4-fluoro-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (not EDA registered)	
4/3-20-3	unchioroeunyiluene)bis[4-fluoro-			concern); wa appen1	Pesticide (not EPA registered)	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Nullibel	Benzo[h]benz[5,6]acridino[ 2,1,9,8-	Health enupolit(s)	Bloaccumulative (VFVB)	Maine (Canada PBiT); WA	Ose example(s) of class	OI 4 years)
475-71-8	klmna]acridine-8,16-dione		x	Appen1	Pigment	
4/3-/1-8	5-Methoxypsoralen with ultraviolet A			Maine (CA Prop 65; IARC); WA	Fragrances, suntan,	
484-20-8	therapy	Cancer		Appen1	pharmaceutical	
404-20-0	Петару	Cancer		Maine (CA Prop 65); WA	Dye, pesticide (EPA reg.	
492-80-8	Auramine	Cancer		Appen1	cancelled), pharmaceutical	
492-00-0	Autaitilite	Body weight, Development,		Аррепі	cancelled), pharmaceutical	
		, , , , ,			Chamical intermediate	.,
406 73 0	2.4 tolumention (2.4 TDA)	Genotoxic, Kidney, Liver,		OFCD CIDC/CIAD	Chemical intermediate,	x
496-72-0	3,4-toluenediamine (3,4-TDA)	Respiratory system		OECD - SIDS/SIAR	research, former hair dye	
	phenol, 2,4-bis(1,1-dimethylethyl)-5-		x	Maine (OSPAR Chemicals of	Chemical intermediate for rubber chemicals, phenolic	
497-39-2	methyl-			Concern); WA Appen1	resins	
505-60-2	Mustard Gas	Cancer		Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1	Vesicant in chemical, warfare, organic synthesis, poison gas	
		Nervous system, Thyroid, Weight				
506-61-6	Potassium silver cyanide	Loss		IRIS; WA Appen1	Used in silver plating	
506-77-4	Chlorine cyanide	Nervous system, Thyroid, Weight Loss		IRIS; WA Appen1	Tear gas, warning agent, chemical synthesis	
509-14-8	Tetranitromethane	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Rocket fuel, propellant	
509-34-2	Spiro[isobenzofuran-1(3H),9'- [9H]xanthen]-3-one, 3',6'- bis(diethylamino)- (Solvent Red 49)		х	Maine (Canada PBiT); WA Appen1	Solvent red 49, heat transfer fluids	
510-15-6	Benzeneacetic acid, 4-chloroalpha(4-chlorophenyl)alphahydroxy-, ethyl ester	Cancer	х	Maine (CA Prop 65; OSPAR Chemicals of High Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
512-56-1	Trimethyl phosphate	Cancer		Maine (CA Prop 65); WA Appen1	Control of spark fouling, gasoline additive, chemical intermediate	
513-37-1	Dimethylvinylchloride	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Organic synthesis	
515-03-7	1-Naphthalenepropanol, $\alpha$ - ethenyldecahydro- 2-hydroxy- $\alpha$ ,2,5,5,8a pentamethyl-, [1R-[1 $\alpha$ (R),2 $\beta$ ,4a $\beta$ ,8a $\alpha$ ]]-		х	Maine (Canada PBiT); WA Appen1	Perfume, cosmetics	
527-20-8	benzenamine, 2,3,4,5,6-pentachloro-		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
528-29-0	o-Dinitrobenzene	Reproduction		Maine (CA Prop 65); WA Appen1	Synthesis of dyestuffs, explosives	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	N-[4-(5-Nitro-2-furyl)-2-			Maine (CA Prop 65); WA		
531-82-8	thiazolyl]acetamide	Cancer		Appen1		
531-85-1	Benzidine dihydrochloride	Cancer		Maine (EU Carcinogen)	Chromogen	
531-86-2	Benzidine sulfate	Cancer		Maine (EU Carcinogen)	Dye	
					Riot control gas, alcohol	
					denaturant, pharmaceutical	
532-27-4	2-Chloroacetophenone	Respiratory system		WA Appen1; Minnesota HRV	intermediate, tear gas	
	·			Maine (CA Prop 65; IARC); WA	Research, production of	
540-73-8	1,2-Dimethylhydrazine	Cancer		Appen1	photographic chemicals	
				Maine (Canada PBiT); WA		
540-97-6	Cyclohexasiloxane, dodecamethyl-		Х	Appen1		х
					Hair preparations,	
			.,		antiperspirants, high purity	u,
			Х	Maine (Canada PBiT); WA	silicone fluid, cosmetics,	Х
541-02-6	Cyclopentasiloxane, decamethyl-			Appen1; Oregon P3 List	toiletries	
				Maine (CA Prop 65); WA		
542-56-3	Isobutyl nitrite	Cancer		Appen1	Chemical intermediate	
				Maine (CA Prop 65; IRIS; NTP 11th ROC); WA Appen1;		
542-75-6	1,3-Dichloropropene	Cancer, Respiratory system		Minnesota HRL; Minnesota HRV	Pesticide	
542-88-1	Bis(chloromethyl)ether	Cancer		Maine (CA Prop 65; IARC; EU Carcinogen; IRIS; NTP 11th ROC); WA Appen1; Minnesota HRL; Minnesota HRV	Reagent, ion-exchange resins, plastics mfg	
544-92-3	Copper cyanide	Body Weight, Kidney, Liver		IRIS; WA Appen1	Electroplating	
					Organic synthesis, high molecular weight	х
550-44-7	H-Isoindole-1,3(2H)-dione, 2-methyl-	Body Weight, Development, Liver		EPA - HC	polyetherimide polymers	
552-30-7	Trimellitic Anhydride (TMA)	Respiratory system		OECD - SIDS/SIAR	Plasticizers, adhesives, polymers, dyes	х
554-13-2	Lithium carbonate	Development		Maine (CA Prop 65); WA Appen1	Pharmaceutical, production of glazes on ceramic and electrical porcelain, catalyst	
556-52-5	Glycidol	Cancer		Maine (CA Prop 65; IARC; NTP 11th ROC); WA Appen1	Alkylating agent, chemical intermediate for pharmaceuticals, cosmetics, stabilizer for natural oils	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
556-67-2	Cyclotetrasiloxane, octamethyl-	Endocrine system	х	Maine (EU Endocrine Disruptor; Canada PBiT); WA Appen1; WA CHCC; Oregon P3 List	Preparation of methyl silicon oils, silicon fluid mixtures	x
557-05-1	Zinc Stearate	Respiratory system		HSDB; WA Appen1	Dusting powders, pharmaceutical, astringent	х
557-21-1	Zinc cyanide	Nervous system, Thyroid, Weight Loss		IRIS; WA Appen1 Maine (OSPAR Chemicals of	Electroplating, metal plating	
559-11-5	2-propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,		Х	Concern); WA Appen1		
563-12-2	Ethion  3-Chloro-2-methylpropene	Nervous system  Cancer		IRIS; WA Appen1  Maine (CA Prop 65; NTP 11th  ROC); WA Appen1	Pesticide (EPA reg. cancelled)  Pesticide mfg	x
563-80-4	3-Methyl-2-butanone	Development, Kidney		EPA - HC	Solvent for nitrocellulose lacquers	х
569-61-9	C.I. Basic Red 9 monohydrochloride	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Textile dye, leather, paper, stain Starting material for phenolic	
576-26-1	2,6-Dimethylphenol	Body weight, kidney, liver, spleen		IRIS; WA Appen1	resins	х
576-53-8	1,2,3,6,7,8 Hexachlorodibenzop-dioxin [Polychlorinated dibenzo-pdioxins]		х	Maine (WA PBT List)	Dioxin	
583-78-8	2,5-Dichlorophenol	Blood, Liver		HSDB	Chemical intermediate for dicamba	х
584-84-9	Toluene 2,4-diisocyanate	Eyes, Respiratory system, Skin		HSDB	Polyurethane foams, elastomers, coatings, hardener for polyurethane adhesives and finishes	х
590-96-5	Methylazoxymethanol	Cancer		Maine (CA Prop 65); WA Appen1	Biological methylating agent	
591-78-6	Methyl n-butyl ketone	Development		CA Prop 65; WA Appen1	Solvent used in paints, lacquers, thinners	
592-01-8	Calcium cyanide	Nervous system, Thyroid, Weight Loss		IRIS; WA Appen1	In stainless steel mfg, pesticide (EPA reg. cancelled)	
592-62-1	Methylazoxymethanol acetate	Cancer		Maine (CA Prop 65); WA Appen1	Research	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Comonomer with acrylonitrile	
					for fabrics, granular products,	
				Maine (CA Prop 65; IARC; NTP	used in leather and fabricated	
593-60-2	Vinyl bromide	Cancer		11th ROC); WA Appen1	metal products	
					Pharmaceutical intermediate,	
				14-in- (CA Pro- CF): \A(A	intermediate in mfg of	
598-55-0	Methyl carbamate	Cancer		Maine (CA Prop 65); WA Appen1	dimethylol methyl carbamate resins	
330 33 0	Metry carbaniate	Currer		препі	Chemical intermediate in	
598-78-7	2-Chloropropanoic acid	Reproduction		CA Prop 65	pesticide mfg	
					Chemical intermediate for	
				Maine (CA Prop 65); WA	naphthalimide, a whitening	
602-87-9	5-Nitroacenaphthene	Cancer		Appen1	agent	
603-33-8	Bismuthine, triphenyl-		x	Maine (Canada PBiT); WA Appen1		
	Benzenamine, 4,4',4"-			Maine (Canada PBiT); WA		
603-48-5	methylidynetris[N,N-dimethyl-		Х	Appen1		
					Chemical intermediate for	
					toluene-2,6-diamine,	
606 30 3	3 6 Dinitratalyana	Canaar		Maine (CA Prop 65); WA	gelatinizing and waterproofing	
606-20-2	2,6-Dinitrotoluene	Cancer		Appen1 Maine (CA Prop 65); WA	agent	
607-57-8	2-Nitrofluorene	Cancer		Appen1		
				Maine (OSPAR Chemicals of		
			x	Concern; Canada PBiT); WA		
608-71-9	phenol, pentabromo-			Appen1	Flame retardant	
				Maina /FII Endacrina dicruntare		
	cyclohexane, 1,2,3,4,5,6-hexachloro-		х	Maine (EU Endocrine disruptors; IRIS; OSPAR Chemicals of		
608-73-1	(HCH)	Cancer		Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
000 75 1	(Control of the Control of the Contr			Concerny, www.ppcnii	r conside (E. 71 reg. cancelled)	
				Maine (EPA Final PBT Rule for		
				TRI; TRI PBT Chemical List;		
				NWM Priority Chemicals; WA		
			Х	PBT List; OSPAR Chemicals of		
				Concern; EU Endocrine Disruptor; Canada PBiT); WA		
				Appen1; WA CHCC; Oregon P3	Chemical intermediate for	
608-93-5	Pentachlorobenzene	Endocrine system		List	pentachloronitrobenzene	



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	1-chloro-2-(chloromethyl)benzene	. ,,	,	, ,	,	
611-19-8	(ochlorobenzyl chloride; OCBC)	Kidney, Respiratory system		OECD - SIDS/SIAR	Chemical intermediate	x
				Maine (EU Endocrine Disruptor);		
611-99-4	4,4'-Dihydroxybenzophenon	Endocrine system		WA Appen1	Plastic monomer	
				Maine (CA Prop 65); WA		
612-82-8	3,3'-Dimethylbenzidine dihydrochloride	Cancer		Appen1		
				Maine (CA Prop 65; NTP 11th		x
612-83-9	3,3'-Dichlorobenzidine dihydrochloride	Cancer		ROC); WA Appen1	Intermediate for color dyes	^
				Maine (CA Prop 65); WA		
613-35-4	N,N'-Diacetylbenzidine	Cancer		Appen1	Research	
					Preparation of hair and fur	
				Maine (CA Prop 65); WA	dyes, corrosion inhibitor for	
615-05-4	2,4-Diaminoanisole	Cancer		Appen1	steel	
C4= =0 0				Maine (CA Prop 65); WA		
615-53-2	N-Nitroso-N-methylurethane	Cancer		Appen1	Research	
615-54-3	1,2,4-Tribromobenzene	Liver	X	IRIS; WA Appen1		
646 22 0	2.2 Bishless and	Cardiovascular system, Kidney,		IDIC MAAAAAAA	Bood office of a stable sale of the	
616-23-9	2,3-Dichloropropanol	Liver		IRIS; WA Appen1	Production of epichlorohydrin	
624 64 7	NI Nikasaadi a maandamina	Canada		Maine (CA Prop 65; IRIS; NTP	Daggarah	
621-64-7	N-Nitrosodi-n-propylamine	Cancer Body Weight, Development, Liver,		11th ROC); WA Appen1	Research	
622-96-8	p - ethyltoluene	Mortality, Reproduction		EPA - HC		х
022 30 0	p curyitoridene	Nortanty, Reproduction		LIA IIC		
					Organic chemical synthesis,	x
624-83-9	Methyl isocyanate	Eyes, Reproduction, Respiratory		ATSDR; HSDB; WA Appen1	carbamate pesticides mfg	^
021033	metry isocyanace	Lyes, Reproduction, Respiratory		Maine (Canada PBiT); WA	ear barriage pesticides ring	
626-39-1	Benzene, 1,3,5-tribromo-		х	Appen1		
0_0 00 _		Development/		REACH Substances of Very High	solvent and dilutent for	
629-14-1	1,2-Diethoxyethane	Reproduction		Concern	detergents	
				Maine (CA Prop 65; EU	Combustion by product,	
				Reproductive Toxicant); WA	reducing agent in metallurgical	x
630-08-0	Carbon monoxide	Blood, Development, Reproduction		Appen1	operations	
					Solvent, insecticides mfg,	
630-20-6	1,1,1,2-Tetrachloroethane	Kidney, Liver		WA Appen1; Minnesota HRL	bleaches, paints, varnishes	
					By product of water	
631-64-1	Dibromoacetic acid	Cancer		Maine (CA Prop 65)	disinfection	
·	1,3-isobenzofurandione, 4,5,6,7-		x	Maine (OSPAR Chemicals of		x
632-79-1	tetrabromo-		X	Concern); WA Appen1	Flame retardant	X
				Maine (OSPAR Chemicals of		
			х	Concern; Canada PBiT); WA	Dielectric fluids, chemical	
634-66-2	benzene, 1,2,3,4-tetrachloro-			Appen1	intermediate	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
					Research, intermediate for	
			х	Maine (OSPAR Chemicals of	pesticides, protection in	
634-90-2	Benzene, 1,2,3,5-tetrachloro-			Concern); WA Appen1	packaging	
				Maine (CA Prop 65; NTP 11th		
636-21-5	o-Toluidine hydrochloride	Cancer		ROC); WA Appen1	Intermediate in dyes mfg	
637-92-3	Ethyl tert-butyl ether	Reproduction		CA Prop 65	Gasoline additive	
					Chemical intermediate,	
638-21-1	Phenylphosphine	Development		CA Prop 65	reagent	
				Maine (CA Prop 65); WA	pharmaceutical and insect	
645-05-6	Altretamine	Development, Reproduction		Appen1	chemosterilant	
					Production of high molecular	x
646-06-0	1,3-Dioxolane	Development, Reproduction		EPA - HC	weight polyacetals	
	1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-			Maine (Canada PBiT); WA	<u> </u>	
647-42-7	tridecafluoro-		×	Appen1		
				Maine (OSPAR Chemical of		
668-34-8	stannylium, triphenyl-		x	Concern); WA Appen1		
000 3 1 0	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,			Maine (Canada PBiT); WA		
678-39-7	9,10,10,10-heptadecafluoro-		х	Appen1		
070 33 7	3,10,10,10 Heptadecandoro			Аррені	Processing solvent for aromatic	
					polyamide fiber, de-icing	
				Maine (CA Prop 65; NTP 11th	additive for jet fuels, solvent	
680-31-9	Hexamethylphosphoramide	Cancer		ROC); WA Appen1		
000-31-9	nexamethylphosphorallide	Caricer		KOC), WA Appeni	for polymers	
		Dady Waight Bland Func Immuno			Organotin intermediate for	.,
CO2 10 1	Dib. studie diablacida (DDTC)	Body Weight, Blood, Eyes, Immune		OFCD CIDC/CIAD	chemical and coating	Х
683-18-1	Dibutyltin dichloride (DBTC)	System, Kidney, Skin		OECD - SIDS/SIAR	production	
					Chemical intermediate hexafluoroisopropanol,	
684-16-2	Hexafluoroacetone	Reproduction		Maine (CA Prop 65)	polyacrylates, organic synthesis	
				Maine (CA Prop 65; IARC; NTP		
684-93-5	N-Nitroso-N-methylurea	Cancer		11th ROC); WA Appen1	Lab, pharmaceutical, mutagen	
				Maine (Canada PBiT; EU		
			x	Endocrine Disruptor); WA	Reducing agent, synthesis	
688-73-3	Stannane, tributyl-	Endocrine system		Appen1	intermediate, pharmaceutical	
693-98-1	2-Methylimidazole	Cancer		IARC 2B	dyes and pigments, hardener for epoxy resins, agricultural chemicals, rubber	
709-98-8	Propanil	Spleen		IRIS; WA Appen1	Pesticide	
. 03 30 0	2-Amino-5-(5-nitro-2-furyl)-1,3,4-	op.com		Maine (CA Prop 65); WA	Continue	
712-68-5	thiadiazole	Cancer		Appen1		
, 12-00-J	unadiazoie	Curicei	l	Whhelit		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
732-11-6	Phosmet	Body weight, Liver		IRIS; WA Appen1	Pesticide	
				Maine (OSPAR Chemicals of		
			x	Concern; OSPAR Chemicals for		х
				Priority Action; Canada PBiT);	Personal care products,	
732-26-3	2,4,6-tri-tert-butylphenol			WA Appen1; Oregon P3 List	medical devices	
754-91-6	Perfluorooctane sulfonamide [PFOSA]		x	Oregon P3 List	Anti stain sontings	
754-91-0	Periluorooctane sunonamide [PFOSA]			Maine (CA Prop 65; IARC; NTP	Anti-stain coatings Ethylating agent, plant	
759-73-9	N-Nitroso-N-ethylurea	Cancer		11th ROC); WA Appen1	mutagen for study	
133-13-3	IN-INITIO30-IN-ETHYLUTEA	Cancer, Cardiovascular system,		Maine (CA Prop 65); Minnesota	mutagen for study	
759-94-4	Ethyl dipropylthiocarbamate	Nervous system		HRL; WA Appen1	Pesticide	
733 34 4	Lettyr dipropyremocarbamate	Nervous system		Titte, WA Appeni	resticiae	
				Maine (CA Prop 65); WA	Chemical intermediate	
764-41-0	1,4-Dichloro-2-butene	Cancer		Appen1	resolving oil in water mixtures	
					g a car	
				Maine (CA Prop 65; IRIS); WA	Research, crosslinking agent,	
765-34-4	Glycidaldehyde	Cancer		Appen1	veterinary pharmaceutical	
				Maine (CA Prop 65; EU		
				Endocrine Disruptor; OSPAR		
	benzene, 1-chloro-2-[2,2,2-trichloro-1-	Development, Endocrine system,	Х	Chemical of Concern); WA		
789-02-6	(4-chlorophenyl)ethyl]-	Reproduction		Appen1	Pesticide (EPA reg. cancelled)	
			х	Maine (OSPAR Chemicals of		x
				Concern; OSPAR Chemicals for	Antioxidant/antiozonant for	
793-24-8	4-(dimethylbutylamino)diphenylamin			Priority Action); WA Appen1	rubber	
047.00.4	Trichlormethine (Trimustine	Constant		Maine (CA Prop 65); WA		
817-09-4	hydrochloride)	Cancer		Appen1		
022.06.0	1 C Have ready days discovered.	From Bossinston, system Chin		OECD - SIDS/SIAR; WA Appen1;	la district confess sections	х
822-06-0	1,6-Hexamethylene diisocyanate	Eyes, Respiratory system, Skin		Minnesota HRV	Industrial surface coatings dyes and pigments, oven	
					cleaner, agricultural chemicals,	
822-36-6	4-Methylimidazole	Cancer		IARC 2B	rubber	
832-69-9	Methylphenanthrene, 1-	Curicu	х	Oregon P3 List	Combustion by-product	
834-12-8	Ametryn	Liver	^	IRIS; WA Appen1	Pesticide	
	,			Maine (CA Prop 65); WA		
838-88-0	4,4'-Methylene bis(2-methylaniline)	Cancer		Appen1		
	,			Maine (CA Prop 65); WA		
842-07-9	C.I. Solvent Yellow 14	Cancer		Appen1; WA CHCC	Dye	
					In dyes, inks, coatings,	х
868-77-9	2-hydroxyethyl methacrylate	Kidney		OECD - SIDS/SIAR	adhesives, others	X



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Lice example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health enapoint(s)	Bioaccumulative (VPVB)	Source(s)	Use example(s) or class	oi 4 years)
				Maine (CA Prop 65); WA	solvent for resins, acetylene,	x
872-50-4	N-Methylpyrrolidone	Development		Appen1; WA CHCC	pigment dispersant, others	
				Maine (EU Endocrine Disruptor);		
886-50-0	Terbutryn	Endocrine system		WA Appen1	Pesticide (EPA reg. cancelled)	
				Maine (EU Endocrine Disruptor);		
900-95-8	Fentin acetate = triphenyltin acetate	Endocrine system		WA Appen1	Pesticide (not EPA registered)	
				Maine (CA Prop 65; IRIS; NTP		
924-16-3	N-Nitrosodi-n-butylamine	Cancer		11th ROC); WA Appen1	Research	
024 42 5	N. Adadha lala ay la saida	6		Maine (CA Prop 65); WA	Adhesives, surface coatings,	x
924-42-5	N-Methylolacrylamide	Cancer		Appen1	binders	
930-55-2	N-Nitrosopyrrolidine	Cancer		Maine (CA Prop 65; IRIS; NTP 11th ROC); WA Appen1	Research, tobacco smoke	
950-55-2	N-Nitrosopyrrollallie	Caricer		Titli KOC), WA Appelli	Research, tobacco smoke	
944-22-9	Dyphonate	Liver, Nervous system		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
	Benzene, 1,2,3,4-tetrachloro-5,6-			Maine (Canada PBiT); WA	(======================================	
944-61-6	dimethoxy-		Х	Appen1		
957-51-7	Diphenamid	Liver		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
			х	Maine (NWM Priority		
959-98-8	Endosulfan, alpha		^	Chemicals); WA Appen1	Pesticide (not EPA registered)	
	Phosphoric acid, 2-chloro-1-(2,4,5-					
	trichlorophenyl)vinyl dimethyl	Body weight, Kidney, Liver,				
961-11-5	(Tetrachlorovinphos)	Nervous system		IRIS; WA Appen1	Pesticide	
994-05-8	tert-Amyl methyl ether	Development		CA Prop 65; WA Appen1	Gasoline additive	Х
1000-05-1	Tetrasiloxane, 1,1,3,3,5,5,7,7-octamethyl		х	Maine (Canada PBiT); WA Appen1		
1000-03-1	octamethy			Maine (EU Endocrine Disruptor);		
1022-22-6	p,p'-DDMU	Endocrine system		WA Appen1		
				Maine (CA Prop 65; IRIS; NWM		
				Priority Chemicals; WA PBT List;		
			Х	OSPAR Chemicals of Concern);		
				WA Appen1l Oregon P3 List;		
1024-57-3	Heptachlor epoxide	Cancer		Minnesota HRL	Heptachlor metabolite	
1031-07-8	Endosulfan sulfate		Х	Oregon P3 List	Precursor in chemical mfg	
1000 27 5	Peroxide, (1,1,4,4-tetramethyl-2-butyne-		х	Maine (Canada PBiT); WA		
1068-27-5 1071-83-6	1,4-diyl)bis[(1,1-dimethylethyl)	Davalanment		Appen1	Pesticide	
10/1-03-0	Glyphosate	Development		IRIS; WA Appen1 Maine (EU Endocrine Disruptor);	resultive	
1113-02-6	Omethoate	Endocrine system		WA Appen1	Pesticide (not EPA registered)	
1113-02-0	Omethoate	Lituoci ille system		MV Whhelit	i esticide (not LFA registered)	1



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; IRIS; NTP		
1116-54-7	N-Nitrosodiethanolamine	Cancer		11th ROC); WA Appen1	Research	
		_		_	Intermediate in organotin	x
1118-46-3	Monobutyltin trichloride	Eyes, Skin		OECD - SIDS/SIAR	compounds production	
				Maine (CA Prop 65; NTP 11th		
1120-71-4	1,3-Propane sultone	Cancer		ROC); WA Appen1	Chemical intermediate	
				Maine (EU Endocrine Disruptor);		
1131-60-8	4-Cyclohexylphenol	Endocrine system		WA Appen1	Antimicrobial additive	
				Maine (CA Prop 65); WA		
1134-23-2	Cycloate	Development		Appen1	Pesticide	
			×	Maine (OSPAR Chemicals of		
1138-52-9	phenol, 3,5-bis(1,1-dimethylethyl)-			Concern); WA Appen1		
	Benzamide, 3,5-dichloro-N-(3,4-		x	Maine (Canada PBiT); WA		
1154-59-2	dichlorophenyl)-2-hydroxy-			Appen1	Preservative, bacteriostat	
				Maine (WA PBT List; OSPAR		
			x	Chemicals of Concern); WA		x
4460 40 5	Decabromodiphenyl ether			Appen1; WA CHCC; Oregon P3	High impact polystyrene, flame	
1163-19-5	[Polybrominated diphenyl ethers]			List	retardant	
	Benzoic acid, 2-[(3,5-dibromo-4-					
	hydroxyphenyl) (3,5-dibromo-4-oxo-2,5-		x			
4476 74 5	cyclohexadien-1-ylidene )methyl]-, ethyl			Maine (Canada PBiT); WA		
1176-74-5	ester			Appen1		
	1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8,-			5DA 116 14/A A	La va da da la vasa de Caracia da	
1222 05 5	hexamethylcyclopenta[g]-2-benzopyran	Dady Maiab	Х	EPA - HC; WA Appen1; Oregon	Laundry detergent fragrance,	x
1222-05-5	(HHCB)	Body Weight		P3 List	fragrance	
1220 55 6	2-Naphthalenol, 1-[(2-		x	Maine (Canada PBiT); WA	Dura	
1229-55-6	methoxyphenyl)azo]- (Oil pink)			Appen1	Dye	
1241 04 7	phosphoric acid, 2-ethylhexyl diphenyl		x	Maine (OSPAR Chemicals of	Food packaging, plasticizer for	х
1241-94-7	ester			Concern); WA Appen1 Maine (CA Prop 65); WA	polyvinyl chlorides	
1271-28-9	Nickelocene	Cancor		Appen1	Catalyst and completing agent	
12/1-20-9	Nickelocelle	Cancer		Maine (CA Prop 65; IARC); WA	Catalyst and completing agent	
1303-00-0	Gallium arsenide	Cancer		Appen1	Semiconductor	
1303-00-0	Guillatti di Sciliac	Curicei		Maine (EU Carcinogen; REACH	Jerniconauctor	
	Arsenic oxide, arsenic pentoxide,			Substances of Very High	Pesticide, wood preservation,	x (2006)
1303-28-2	diarsenic pentaoxide	Cancer		Concern); WA Appen1	dye	X (2000)
1303 20-2	dia seme pentuoniue	Cancel		Maine (CA Prop 65); WA		
1307-96-6	Cobalt [II] oxide	Cancer		Appen1	Pigments, catalyst	x (2006)
1307-30-0	Cobait [ii] Oxide	Caricei		Maine (CA Prop 65); WA	Pigment, mordant, flame-	
1309-64-4	Antimony oxide (Antimony trioxide)	Cancer		Appen1	proofing	х
1303 04-4	Antimony oxide (Antimony trioxide)	Cancel		Whent	Proofing	
1310-73-2	Sodium Hydroxide	Eyes, Respiratory system, Skin		WA Appen1; Minnesota HRV	Caustic and base	х



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; EU		x (2006)
1313-99-1	Nickel oxide	Cancer		Carcinogen); WA Appen1	Colorant, fuel cell electrodes	X (2000)
1314-06-3	Dinickel trioxide	Cancer		Maine (EU Carcinogen)	Storage batteries	
				Maine (CA Prop 65; NTP 11th		
1314-20-1	Thorium dioxide	Cancer		ROC); WA Appen1	High temperature mantles	
	Vanadium pentoxide (orthorhombic			Maine (CA Prop 65); WA		x (2006)
1314-62-1	crystalline form)	Cancer, Respiratory system		Appen1; Minnesota HRV	From burning fuel oil	X (2000)
1314-84-7	Zinc phosphide	Body Weight		IRIS; WA Appen1	Pesticide	
				Maine (WA PBT List; OSPAR		
	Pentachloronaphthalene		х	Chemicals of Concern); WA		
1321-64-8	[Polychlorinated naphthalenes]			Appen1; Oregon P3 List	Chlorinated naphthalenes mfg	
				Maine (WA PBT List; OSPAR		
	Trichloronaphthalene [Polychlorinated		х	Chemicals of Concern); WA	Lubricants mfg in electrical	
1321-65-9	naphthalenes]			Appen1; Oregon P3 List	wire insulation	
	1-Naphthalenemethanol, $\alpha$ , $\alpha$ -bis[4-					
	(dimethylamino) phenyl]-4-		х	Maine (Canada PBiT); WA		
1325-85-5	(methylphenylamino)-			Appen1		
	1-Naphthalenemethanol, α,α-bis[4-		х	Maine (Canada PBiT); WA		
1325-86-6	(diethylamino) phenyl]-4-(ethylamino)-			Appen1		
	Spiro[isobenzofuran-1(3H),9'-		×			
	[9H]xanthen]-3-one, 2',4',5',7'-			Maine (Canada PBiT); WA		
1326-05-2	tetrabromo-3',6'-dihydroxy-, lead salt			Appen1		
			×	Maine (Canada PBiT); WA		
1326-49-4	C.I. Sulphur Orange 1			Appen1		
				Maine (EU Carcinogen; REACH		4
4007 50 0				Substances of Very High	Pesticide (EPA reg. cancelled),	x (2006)
1327-53-3	Arsenic trioxide, diarsenic trioxide	Cancer		Concern); WA Appen1	preserving hides, pigments	
4000 00 7		Eyes, Nervous system, Respiratory		WA Appen1; Minnesota HRL;		x
1330-20-7	Xylene	system		Minnesota HRV	Solvent, herbicide, feedstock	
4000 04 4				Maine (CA Prop 65; IARC; IRIS;		
1332-21-4	Asbestos (amphibole forms)	Cancer		NTP 11th ROC); WA Appen1		
					Motal finishing corrects	
				Maine (FII Coreins see) 14/4	Metal finishing, corrosion	x (2006)
1222 02 0	Chromium ()(I) triouids	Concor		Maine (EU Carcinogen); WA	inhibitor, chemical	
1333-82-0	Chromium (VI) trioxide	Cancer		Appen1	intermediate, pharmaceutical	
	Carbon black (airborne, unbound			Maine (CA Prop 65): MA	Pigment, printing, drawing	
1222 96 4	· · · · · ·	Concor		Maine (CA Prop 65); WA	5 5	
1333-86-4	particles of respirable size)	Cancer		Appen1	inks, chemical reducing agent	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; EU		
				Reproductive Toxicant); WA		
1335-32-6	Lead subacetate	Cancer, Reproduction		Appen1	Sugar analysis, clarifying	
				Maine (WA PBT List; OSPAR		
	Hexachloronaphthalene		x	Chemicals of Concern); WA	Capacitors - electric cable	
1335-87-1	[Polychlorinated naphthalenes]			Appen1; Oregon P3 List	coverings	
				Maine (WA PBT List; OSPAR		
	Tetrachloronaphthalene		х	Chemicals of Concern); WA	Capacitors - electric cable	
1335-88-2	[Polychlorinated naphthalenes]			Appen1; Oregon P3 List	coverings	
1336-36-3	Polychlorinated Biphenyls (PCBs)	Cancer, Development, Endocrine Disruptor	x	Maine (IARC; IRIS; NTP 11th ROC; EU Endocrine Disruptor; EPA Final PBT Rule for TRI; TRI PBT Chemical List; EPA Priority PBT; NWM Priority Chemicals; OSPAR Chemicals of Concern; Canada PBiT); WA Appen1; Minnesota HRL; Minnesota HRV	Polymerization initiator, paints	x
1338-23-4	Methyl ethyl ketone peroxide	Body Weight, Eyes, Mortality, Skin		OECD - SIDS/SIAR	mfg, plastics, rubber	
1344-37-2	C.I. Pigment Yellow 34 [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77603.], Lead sulfochromate yellow	Cancer, Reproduction		Maine (EU Reproductive Toxicant); REACH Substance of Very High Concern	Pigment	x (2006)
	Aflatoxins (naturally occurring mixtures			Maine (CA Prop 65; IARC; NTP		
1402-68-2	of)	Cancer		11th ROC); WA Appen1	Research	
1460-02-2	benzene, 1,3,5-tris(1,1-dimethylethyl)-		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
1461-22-9	Stannane, tributylchloro-		х	Maine (Canada PBiT); WA Appen1	Pesticide (not EPA registered), chemical intermediate	
1461-25-2	Tetrabutyltin (TTBT)	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1	Stabilizer, rust inhibiting agent	х
1464-53-5	Diepoxybutane	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Research, curing polymers, chemical intermediate	
		Blood, Nervous system,				
1563-66-2	Carbofuran	Reproductive		HSDB; IRIS; WA Appen1	Pesticide	x



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Marine (EU Endonine Biometer		
				Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI; TRI		
			х	PBT Chemical List; NWM Priority		
				Chemicals; OSPAR Chemicals of		
				Concern; OSPAR Chemicals for		
				Priority Action; Canada PBiT);		
1582-09-8	Trifluralin	Endocrine system		WA Appen1; Oregon P3 List	Pesticide	
	9,10-Anthracenedione, 1-hydroxy-4-[[4-		x	Maine (Canada PBiT); WA		
1594-08-7	[(methylsulfonyl) oxy]phenyl]amino]-			Appen1		
				Maine (CA Prop 65); WA		
1596-84-5	Daminozide	Cancer		Appen1	Pesticide, growth regulator	
			x	Maine (OSPAR Chemicals of		
1606-67-3	1-pyrenamine			Concern); WA Appen1	Character Linda and distant	
1615 90 1	1.2 Diethydhydrosine	Consor		Maine (CA Prop 65); WA	Chemical intermediate,	
1615-80-1	1,2-Diethylhydrazine	Cancer		Appen1 Maine (EU Endocrine Disruptor);	research	
1634-04-4	Methyl tertiary butyl ether (MTBE)	Endocrine system		WA Appen1		x
100 / 0 / /	interry tertiary sacy earle (int 22)	Zindosinie oyotein		· · · · · · · · · · · · · · · · · · ·		
1646-88-4	Aldoxycarb	Nervous system		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
	1-Propanaminium, 3-					
	[[(heptadecafluorooctyl)		x			
	sulfonyl]amino]-N,N,N-trimethyl-,		^	Maine (Canada PBiT); WA		
1652-63-7	iodide			Appen1		
1500.00.1				Maine (EU Endocrine disruptor);		
1689-83-4	loxynil	Endocrine system		WA Appen1	Herbicide	
1689-84-5	Bromoxynil	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide	
1009-04-3	Biomoxymii	Caricer		Maine (CA Prop 65); WA	resticide	
1689-99-2	Bromoxynil octanoate	Cancer		Appen1		
	,			PP ·		
	1-octanesulfonamide, N-ethyl-			Maine (OSPAR Chemicals of		
	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-		х	Concern; Canada PBiT); WA		
1691-99-2	heptadecafluoro-N-(2-hydroxyethyl)-			Appen1	Chemical intermediate	
				Maine (CA Prop 65); WA		
1694-09-3	Benzyl violet 4B	Cancer		Appen1	Dye	
4705.05.7			x	Maine (OSPAR Chemicals of		
1705-85-7	chrysene, 6-methyl-			Concern); WA Appen1	In tobacco smoke	J



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health enupolit(s)	bloaccullidative (VPVB)	Source(s)	Ose example(s) of class	or 4 years)
			x	Maine (OSPAR Chemicals of	Pesticide (not EPA registered)	
1715-40-8	bromocylene			Concern); WA Appen1	and pharmaceutical	
	,			, , , ,		
				Maine (CA Prop 65; IARC; NTP		
				11th ROC; EU Endocrine		
				Disruptor; EPA Final PBT Rule		
			Х	for TRI; NWM Priority		
				Chemicals; WA PBT List; OSPAR		
		Cancer, Development, Endocrine		Chemicals of Concern); WA		
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	system		Appen1; Oregon P3 List	Combustion by-product	
				Maine (WA PBT list); WA		
	Acid [Perfluorooctane sulfonates		x	Appen1; WA CHCC; Oregon P3		
1763-23-1	(PFOS)]	Development, Liver, Thyroid		List; Minnesota HRL	Surfactant	
				Maine (EU Endocrine Disruptor);	Nonionic surfactants mfg,	
1806-26-4	Phenol, 4-octyl-	Endocrine system		WA Appen1; WA CHCC	plasticizers, resins	
				Maine (OSPAR Chemicals of		
			x	Concern; OSPAR Chemicals for		
			^	Priority Action); WA Appen1;		
1825-21-4	pentachloroanisole			Oregon P3 List		
				Maine (CA Prop 65; NTP 11th		
			х	ROC; EU Endocrine Disruptor;		
				EU PBT List; OSPAR Chemicals of		
1836-75-5	Nitrofen	Cancer, Endocrine system		Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
1006 77 7	benzene, 1,3,5-trichloro-2-(4-		x	Maine (OSPAR Chemicals of		
1836-77-7	nitrophenoxy)-	101		Concern); WA Appen1	Pesticide (not EPA registered)	
1001 22 1	Chloreth al disconthes (Dooth al)	Kidney, Liver, Respiratory system,		IDIC: MAA Amaand	Do eticido	
1861-32-1	Chlorthal-dimethy (Dacthal) benzenamine, N-butyl-N-ethyl-2,6-	Thyroid		IRIS; WA Appen1 Maine (OSPAR Chemicals of	Pesticide	
1001 40 1			х		Do eticide	
1861-40-1	dinitro-4-(trifluoromethyl)- 2H-Tetrazolium, 3,3'-(3,3'-			Concern); WA Appen1	Pesticide	
	dimethoxy[1,1'- biphenyl]-4,4'-					
	diyl)bis[2,5-diphenyl-, dichloride		х	Maine (Canada PBiT); WA		
1871-22-3	(Tetrazolium blue)			, , , , , , , , , , , , , , , , , , , ,	Dye	
10/1-22-3	(Tetrazolium biue)			Maine (CA Prop 65); WA		
1897-45-6	Chlorothalonil	Cancer			Pesticide	
1037-43-0	Cinorottialoriii	Curicei		Maine (OSPAR Chemicals of	i caudic	
				Concern; EU Endocrine		
		Cardiovascular system, Endocrine		Disruptor); WA Appen1;		
1912-24-9	Atrazine	system, Reproduction			Pesticide	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAC Number	Chamical Name	Haalth andraint/a	Persistent, very	Sauras (a)	Han average/a) an alone	•
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
1918-00-9	Dicamba	Development		WA Appen1; Minnesota HRL	Pesticide	
1010 02 1	Diala was	Fordersine content lives		Maine (EU Endocrine Disruptor);	Destinide annual manualeten	
1918-02-1	Picloram	Endocrine system, Liver		WA Appen1	Pesticide, growth regulator	
1010 16 7	Drawa ship :	6		Maine (CA Prop 65); WA	Do eticide	
1918-16-7	Propachlor	Cancer		Appen1	Pesticide	
	Asstic said (2.4.5 trichlorenhonous) 2			Maine (OSDAD Chemicals of		
1020 47 0	Acetic acid, (2,4,5-trichlorophenoxy)-, 2-		Х	Maine (OSPAR Chemicals of	Destiside (FDA veg sancelled)	
1928-47-8	ethylhexyl ester			Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
1929-77-7	Vernolate (Vernam)	Body Weight		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
1323-11-1	vernolate (vernam)	body Weight		Maine (CA Prop 65); WA	resticide (LI A reg. caricelled)	
1929-82-4	Nitrapyrin	Cancer, Development		Appen1	Fertilizer	
1323-02-4	2,7-Naphthalenedisulfonic acid, 4-	Cancer, Development		Аррент	T ET UIIZET	
	amino-3-[[4'-[(2,4-diaminophenyl)					
	azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy		х			
	6-(phenylazo)-, disodium salt ( C.I.		^	Maine (CA Prop 65; Canada		
1937-37-7	DIRECT BLACK 38)	Cancer		, , ,	Dye	
1557 57 7	DIRECT BEACK 30)	Carreer		Maine (OSPAR Chemicals of	l l	
1940-43-8	phenol, 2,2'-methylenebis[4,6-dichloro-		x	Concern); WA Appen1		
13 13 13 3	prienci, 2,2 metri, renesisti, re diemere			Maine (Canada PBiT; EU		
			x	Endocrine Disruptor); WA		
1983-10-4	Stannane, tributylfluoro-	Endocrine system		• "	Antifouling	
2008-41-5	Butylate	Liver		IRIS; WA Appen1	Pesticide	
	1,1'-biphenyl, 2,2',3,3',4,4',5,5',6,6'-			Maine (OSPAR Chemicals of		
2051-24-3	decachloro-		x	,	Used in electrical systems	
				Maine (CA Prop 65); WA	,	
2092-56-0	D&C Red No. 8	Cancer			Dye	
					·	
				Maine (OSPAR Chemicals of		
	Ethyl O-(p-nitrophenyl) phenyl		Х	Concern; OSPAR Chemicals for		
2104-64-5	phosphonothionate			Priority Action); WA Appen1	Pesticide (EPA reg. cancelled)	
	phosphorothioic acid, O-(4-bromo-2,5-		х	Maine (OSPAR Chemicals of		
2104-96-3	dichlorophenyl) O,O-dimethyl ester			Concern); WA Appen1	Pesticide (not EPA registered)	
	Benzoic acid, 2,3,4,5-tetrachloro-6-(2,					
	4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-		х	Maine (Canada PBiT); WA		
2134-15-8	xanthen-9-yl) -			Appen1	Dye	
				Maine (CA Prop 65; EU		
	Stannane, tributyl[(2-methyl-1-oxo-2-		х	Endocrine Disruptor; Canada	Antifouling, pesticide (EPA reg.	
2155-70-6	propenyl)oxy]-	Development, Endocrine system		PBiT); WA Appen1	cancelled)	
2212-67-1	Molinate	Reproduction		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	ricular enapoliti(s)	bloaceamalative (vi vb)	Source(s)	OSC CAUTIFIC(S) OF Class	or 4 years)
	Zinc, bis[O,O-bis(1,3-dimethylbutyl)		X	Maine (Canada PBiT); WA		x
2215-35-2	phosphorodithioato-S,S']-, (T-4)-			Appen1	Oils	
			х	Maine (OSPAR Chemicals of Concern; OSPAR Chemicals for		
2227-13-6	tetrasul			Priority Action); WA Appen1	Pesticide (EPA reg. cancelled)	
2227 13 0	tetrasar			Thomey rectoriff, wrendpeni	resticiae (El 717eg. caricellea)	
		(Mortality: acute exposure) - no			Intermediate in mfg of	
		repeated dose, Development or			pesticides and agricultural	х
2231-57-4	Carbonothioic dihydrazide	Reproduction results available		EPA - HC	chemicals	
2224 42 4	and a delication of the land		X	Maine (OSPAR Chemicals of	F	
2234-13-1 2238-07-5	octachloronaphthalene Diglycidyl ether	Reproduction		Concern); WA Appen1 CA Prop 65	Fireproofing, waterproofing Diluent for epoxy resins	
2230-07-3	Digiyaldyi ethel	neproduction		Maine (EU Endocrine Disruptor);	, ,	
2279-76-7	Tri-n-propyltin (TPrT)	Endocrine system		WA Appen1		
				EU Category 1 Endocrine		
2279-76-7	tri-n-propyltin chloride	Endocrine system		disruptor	antibacterial, fungicide	
2303-17-5	carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester		Х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide	
2303-17-3	3-(2,3,3-tricinoro-2-propertyr) ester			Maine (CA Prop 65); WA	resticide	
2312-35-8	Propargite	Cancer, Development		Appen1	Pesticide	
	Benzo[b]thiophen-3(2H)-one, 6-chloro-					
	2-(6-chloro-4-methyl- 3-		х			
2270 74 0	oxobenzo[b]thien-2(3H)-ylidene)-4-			Maine (Canada PBiT); WA	Due	
2379-74-0	methyl- (D and C Red No. 30) Benzo[b]thiophen-3(2H)-one, 5-chloro-			Appen1	Dye	
	2-(5-chloro-4,7- dimethyl-3-					
	oxobenzo[b]thien-2(3H)-ylidene)-4,7-		Х	Maine (Canada PBiT); WA		
2379-75-1	dimethyl -			Appen1		
2381-21-7	Methylpyrene, 1-		Х	Oregon P3 List	Combustion by-product	
				Maine (CA Dress CE AITD 44:1		
				Maine (CA Prop 65; NTP 11th ROC; EU Endocrine Disruptor;		
			х	EPA Priority PBT; WA PBT List;		
				OSPAR Chemicals of Concern);	Pesticide (not EPA registered),	
2385-85-5	Mirex	Cancer, Endocrine system		WA Appen1; Oregon P3 List	fire retardant	
		Development, Immune system,	х			
2395-00-8	Perfluorooctanoic Acid (PFOA) and Salts	Liver	,	Minnesota HRL	Anti-stain coatings	
2425-06-1	Captafol	Cancor		Maine (CA Prop 65; IARC); WA	Pacticida (not EDA registered)	
2425-06-1	Сартатог	Cancer		Appen1	Pesticide (not EPA registered)	L



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
2425 05 6	2-Naphthalenol, 1-[(4-methyl-2-		Х	Maine (Canada PBiT); WA		
2425-85-6 2426-08-6	nitrophenyl)azo]- (CI Pigment Red 3)	Dosniratory Chin		Appen1 HSDB	Dyes/pigment	.,
2426-08-6	n-Butyl glycidyl ether	Respiratory, Skin		Maine (CA Prop 65); WA		х
2429-74-5	C.I. Direct Blue 15	Cancer		Appen1	Dye	
			x	Maine (EU Endocrine Disruptor; OSPAR Chemicals of Concern);	,	
2437-79-8	1,1'-biphenyl, 2,2',4,4'-tetrachloro-	Endocrine system		WA Appen1		
				Maine (CA Prop 65); WA		
2439-01-2	Oxythioquinox (Chinomethionat)	Cancer, Development		Appen1	Pesticide (EPA reg. cancelled)	
2439-10-3	Dodine	Thyroid		IRIS; WA Appen1	Pesticide	
2451-62-9	Triglycidyl isocyanurate	Skin		HSDB	Curing agent for polyester powder coatings	х
2475-45-8	Disperse Blue 1	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Dye	
2407.00.0		5 5		oron superioran		х
2487-90-3	Trimethoxysilane  Acetamide, N-[2-[(2-bromo-6-cyano-4-nitrophenyl)azo]-5- (diethylamino)phenyl]- (CI Disperse	Eyes, Respiratory system, Skin	x	OECD - SIDS/SIAR  Maine (Canada PBiT); WA	Manufacture of organosilanes	
2537-62-4	Anthra[9,1,2-cde]benzo[rst]pentaphene-5,10-diol, 16,17-dimethoxy-,		х	Appen1  Maine (Canada PBiT); WA	Dye	
2538-84-3	bis(hydrogen sulfate), disodium salt			Appen1	Dye	
2545-59-7	acetic acid, (2,4,5-trichlorophenoxy)-, 2-butoxyethyl ester		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
2593-15-9	Terrazole	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide	
2602-46-2	Direct Blue 6 (technical grade)	Cancer		Maine (CA Prop 65); WA Appen1	Dye	
2646-17-5	Oil Orange SS	Cancer		Maine (CA Prop 65); WA Appen1	Dye	
2653-64-7	2-Naphthalenol, 1-(1-naphthalenylazo)-		х	Maine (Canada PBiT); WA Appen1	Dye	
2668-47-5	[1,1'-biphenyl]-4-ol, 3,5-bis(1,1-dimethylethyl)-		х	Maine (OSPAR Chemicals of Concern); WA Appen1		



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Circinical Name	Treater enapolité(s)	Dioaccamalative (vi vb)	Source(s)	Intermediate, coatings,	or 4 years)
	Benzene, 1,3-bis(1-isocyanato-1-		x	Maine (Canada PBiT); WA	printing inks, sealants, wood	
2778-42-9	methylethyl)-		^	Appen1	coating	
				Maine (CA Prop 65); WA		
2784-94-3	HC Blue 1	Cancer		Appen1	Dye	
	Potassium salt [Perfluorooctane			Maine (WA PBT List; Canada	Emulsifier - fluoropolymer	
2795-39-3	sulfonates (PFOS)]	Development, Liver, Thyroid		PBiT); WA Appen1	polymerization	
2,33 33 3		Development, 2.ver, myreta		. S. m.	polymenization	
	2-Naphthalenol, 1-[(2-chloro-4-		x	Maine (Canada PBiT); WA		
2814-77-9	nitrophenyl)azo]- (D & C Red no. 36)		^	Appen1	Dye	
2011773	3-Aminomethyl-3,5,5-			7.656.11		
2855-13-2	trimethylcyclohexylamine	Kidney, Respiratory system		OECD - SIDS/SIAR	Epoxy resin curing agent	х
		indicate of the second second		Maine (OSPAR Chemicals of	_perior reasons agains	
	phosphorothioic acid, O,O-diethyl O-		x	Concern); WA Appen1; Oregon		
2921-88-2	(3,5,6-trichloro-2-pyridyl) ester		^	P3 List	Pesticide	
	1,1,1-Trichloro-2,2-bis(4-			Maine (EU Endocrine Disruptor);		
2971-22-4	chlorophenyl)ethane	Endocrine system		WA Appen1	herbicide	
		Zinacomic system		TO THE PERIOD		
	Bis-OH-Methoxychlor = 1,1,1-trichloro-			Maine (EU Endocrine Disruptor);		
2971-36-0	2,2-bis(4-hydroxyphenyl)ethane (HTPE)	Endocrine system		WA Appen1		
				Maine (CA Prop 65); WA		
2973-10-6	Diisopropyl sulfate	Cancer		Appen1	Chemical intermediate	
				Maine (CA Prop 65); WA		
3068-88-0	beta-Butyrolactone	Cancer		Appen1		
	1,4-benzenediamine, N-(1,4-			Maine (OSPAR Chemicals of		
3081-01-4	dimethylpentyl)-N'-phenyl-		x	Concern); WA Appen1	Polymerization inhibitor	х
	Stannane, tributyl[(1-oxo-9-			Maine (EU Endocrine Disruptor);		
3090-35-5	octadecenyl)	Endocrine system		WA Appen1		
	2-Naphthalenol, 1-[(2,4-	, , , , , , , , , , , , , , , , , , , ,		Maine (Canada PBiT); WA		
3118-97-6	dimethylphenyl)azo]-		x	Appen1	Dye	
	phenol, 2-(2H-benzotriazol-2-yl)-4-			Maine (OSPAR Chemicals of		
3147-75-9	(1,1,3,3-tetramethylbutyl)-		×	Concern); WA Appen1	Polymers, stabilizer	Х
	, ,,			Maine (NTP 11th ROC); WA		
3165-93-3	p-chloro-o-toluidine hydrochloride	Cancer		Appen1	Dye	
				Maine (Canada PBiT); WA		
	Cyclododecane, 1,2,5,6,9,10-		x	Appen1; REACH Substances of		x
3194-55-6	hexabromo-			Very High Concern	Flame retardant	
					antimicrobial, disinfection by-	
3252-43-5	Dibromoacetonitrile	Cancer		IARC 2B	product	
	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-		×	Maine (EPA Final PBT Rule for		
3268-87-9	dioxin			TRI; WA PBT List); WA Appen1	By-product	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Nulliber	1,3,5-Triazine, 2,4-dimethoxy-6-(1-	nearth enupoliti(s)	Bloaccullulative (VPVB)	Maine (Canada PBiT); WA	Ose example(s) of class	oi 4 years)
3271-22-5	pyrenyl)-		x	Appen1		
32/1-22-3	benzene, 1,3,5-tribromo-2-(2-			Maine (OSPAR Chemicals of		
3278-89-5	propenyloxy)-		x	Concern); WA Appen1	Flame retardant, polymer	
3270-09-3	ргорепуюху)-			Maine (CA Prop 65; NTP 11th	riame retardant, polymer	
3296-90-0	2,2-Bis(bromomethyl)-1,3-propanediol	Cancer		ROC); WA Appen1	Flame retardant	
3290-90-0	2,2-Bis(bioinometriyi)-1,3-propanedioi	Cancer		Maine (CA Prop 65); WA	Electrical components, water	
3333-67-3	Nickel carbonate	Cancer		Appen1	treatment	
3333-07-3	Nickei Carbonate	Calicei		Appeni	treatment	
3337-71-1	Asulam	Liver, Reproduction		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
3337-71-1	Asulam	Liver, Reproduction		Maine (OSPAR Chemicals of	Pesticide (EPA reg. cancelled)	
3351-28-8	chrysono 1 mothyl		x	Concern); WA Appen1	PAH	
3331-20-0	chrysene, 1-methyl- Triclosan [2,4,4'-trichloro-2'-			Concern), WA Appeni	РАП	
2200 24 5	• • •		x	Oregon P3 List	Disinfectant	
3380-34-5	hydroxydiphenyl ether]			Maine (OSPAR Chemicals of	Disinfectant	
2200 74 7	bicyclo[2.2.1]hepta-2,5-diene,		х	,		
3389-71-7	1,2,3,4,7,7-hexachloro-			Concern); WA Appen1		
	harrana 1 ahlara 2 [2 2 diahlara 1 /4			Maine (EU Endocrine Disruptor;		
2424 02 6	benzene, 1-chloro-2-[2,2-dichloro-1-(4-		Х	OSPAR Chemicals of Concern);	Dooti sida basaladaa aasadat	
3424-82-6	chlorophenyl)ethenyl]-			WA Appen1	Pesticide breakdown product	
2460 62 4	2-Naphthalenol, 1-[(2,4-	6		Maine (CA Prop 65, Canada	Diamant	
3468-63-1	dinitrophenyl)azo]-	Cancer		PBiT); WA Appen1	Pigment	
2555 47 2	Trisiloxane, 1,1,1,5,5,5-hexamethyl-3, 3-		x	Maine (Canada PBiT); WA	Defense and biss horsels a	
3555-47-3	bis[(trimethylsilyl)oxy]-			Appen1	Defoamer, emulsion breaker	
	4 4 4 2 Tabaa blaas 2 2 bis/4			Marine (Ell Endander Discussion)		
2562 45 0	1,1,1,2-Tetrachloro-2,2-bis(4-			Maine (EU Endocrine Disruptor);		
3563-45-9	chlorophenyl)ethane (tetrachloro DDT)	Endocrine system		WA Appen1	Impurity in pesticide	
2564.00.0				Maine (CA Prop 65); WA		
3564-09-8	Ponceau 3R	Cancer		Appen1	Dye	
2572 75 2	2-(2-Formylhydrazino)-4-(5-nitro-2-			Maine (CA Prop 65); WA		
3570-75-0	furyl)thiazole	Cancer		Appen1	Antibacterial	
	3H-Indol-3-one, 5-bromo-2-(9-chloro-3-			Addition (Control of DD):T) Ave		
2507.57.0	oxonaphtho[ 1,2-b]thien-2(3H)-ylidene)-		Х	Maine (Canada PBiT); WA		
3687-67-0	1,2-dihydro-			Appen1		
2600 52 7	AF-2;[2-(2-furyl)-3-(5-nitro-2-			Maine (CA Prop 65); WA	Estado del Maria	
3688-53-7	furyl)]acrylamide	Cancer		Appen1	Food additive	
2500 24 5	Tetraethyldithiopyrophosphate	l.,		IDIG 1444 A		
3689-24-5	(Sulfotep)	Nervous system		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
				Maine (CA Prop 65; EPA Final		
				PBT Rule for TRI; NTP 11th		
3697-24-3	5-Methylchrysene	Cancer		ROC); WA Appen1	From incomplete combustion	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	2,7-Naphthalenedisulfonic acid, 4-					
	hydroxy-3-[[4'-[(2-hydroxy- 1-		x			
	naphthalenyl)azo]-2,2'-dimethyl[1,1'-		^	Maine (Canada PBiT); WA		
3701-40-4	biphenyl ]-4-yl]azo]-, disodium salt			Appen1		
3701 40 4	Sipricity 1 4 yijazoj , aisoaiam saic			Аррені		
	4,7-methano-1H-indene, 4,5,6,7,8,8-		х	Maine (OSPAR Chemicals of		
3734-48-3	hexachloro-3a,4,7,7a-tetrahydro-		^	Concern); WA Appen1	Chemicals intermediate	
3734-40-3	nexacmoro-sa,4,7,7a-tetranyuro-			Maine (CA Prop 65); WA	Chemicals intermediate	
3761-53-3	Ponceau MX	Cancer		Appen1	Dye/colorant	
	9,10-Anthracenedione, 1-amino-4-(2-	Curicei		Maine (Canada PBiT); WA	Dye <sub>l</sub> colorant	
3767-68-8	benzothiazolylthio)-		х	Appen1		
3/0/-08-8	benzotniazoryithio)-					
2774 40 5	Nafarasia	6		Maine (CA Prop 65); WA	December who were continued	
3771-19-5	Nafenopin	Cancer		Appen1	Research, pharmaceutical	
2040 74 0	Character and the latest	Decele const		Maine (CA Prop 65); WA	Destinide the second title	
3810-74-0	Streptomycin sulfate	Development		Appen1	Pesticide, pharmaceutical	
2025 26 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Development, Immune system,	x			
3825-26-1	Perfluorooctanoic Acid (PFOA) and Salts	Liver		Minnesota HRL	Anti-stain coatings	
	phenol, 2-(2H-benzotriazol-2-yl)-4,6-		x	Maine (OSPAR Chemicals of		
3846-71-7	bis(1,1-dimethylethyl)-			Concern); WA Appen1	UV absorbers	
			х	Maine (OSPAR Chemicals of		
3972-13-2	DIDT		^	Concern); WA Appen1		
	4-Oxo-4-[(tributylstannyl)oxy]-2-		х	Maine (Canada PBiT); WA		
4027-18-3	butenoic acid		,	Appen1	Pesticide	
	3-Isocyanatomethyl-3,5,5-				Chemical intermediate and	х
4098-71-9	trimethylcyclohexyl isocyanate	Eyes, Respiratory system, Skin		OECD - SIDS/SIAR	monomer for polyurethane	
				Maine (EU Endocrine Disruptor);		
4329-12-8	m,p'-DDD	Endocrine system		WA Appen1		
	Phenol, 2-		х	Maine (EU Endocrine Disruptor;		
4342-30-7	[[(tributylstannyl)oxy]carbonyl]-	Endocrine system		Canada PBiT); WA Appen1		
				Maine (EU Endocrine Disruptor);		
4342-36-3	Stannane, (benzoyloxy)tributyl-	Endocrine system		WA Appen1	Pesticide	
				Maine (EU Endocrine Disruptor);		
4376-20-9	Mono 2 ethyl hexylphthalate (MEHP)	Endocrine system		WA Appen1; WA CHCC	Plasticizer	
	dibenzo[def,mno]chrysene-6,12-dione,		х	Maine (OSPAR Chemicals of		
4378-61-4	4,10-dibromo- (Pigment Red 168)			Concern); WA Appen1	Pigment	
	9,10-Anthracenedione, 1-amino-4-		х	Maine (Canada PBiT); WA		
4395-65-7	(phenylamino)- (Disperse Blue 19)			Appen1	Dye	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EU Endocrine Disruptor);		
4400-06-0	4-Hydroxy-3,4',5-trichlorobiphenyl	Endocrine system		WA Appen1		
	Benzenesulfonic acid, 3,3'-[(9,10-					
	dihydro-9,10- dioxo-1,4-		х			
	anthracenediyl)diimino]bis[2,4,6-			Maine (Canada PBiT); WA		
4474-24-2	trimethyl -, disodium salt			Appen1	Dye	
				Maine (CA Prop 65; NTP 11th		
4549-40-0	N-Nitrosomethylvinylamine	Cancer		ROC); WA Appen1	Research	
	Stannane, [1,2-			Maine (EU Endocrine Disruptor);		
4782-29-0	phenylenebis(carbonyloxy)	Endocrine system		WA Appen1		
	abasabasathisis said O /4 basas 2.5			Marine (OCDAD Chaminals of		
4024 70 6	phosphorothioic acid, O-(4-bromo-2,5-		Х	Maine (OSPAR Chemicals of	Docticide (not EDA nocistored)	
4824-78-6	dichlorophenyl) O,O-diethyl ester			Concern); WA Appen1	Pesticide (not EPA registered)	
				Maine (OSPAR Chemicals of		
			х	Concern; OSPAR Chemicals for		x
4904-61-4	1,5,9-cyclododecatriene			Priority Action); WA Appen1	Feedstock	
4304 01 4	1,5,5 cyclododecathene			Thomey Actions, WA Appens	recustock	
	N,N-dicyclohexyl-2-					x
4979-32-2		Adrenal glands, Kidney, Spleen		OECD - SIDS/SIAR	Rubber accelerator	~
5103-71-9	Chlordane, cis-		х	Oregon P3 List	Pesticide (not EPA registered)	
				- J	, , ,	
			x	Maine (EU Endocrine Disruptor);		
5103-73-1	Cis-Nonachlor	Endocrine system		WA Appen1; Oregon P3 List	Pesticide (not EPA registered)	
			.,			
5103-74-2	Chlordane, trans-		Х	Oregon P3 List	Pesticide (not EPA registered)	
					Binders and hardeners for	
	4,4´-Methylenedicyclohexyl				coating materials or adhesives	x
5124-30-1	diisocyanate	Eyes, Respiratory system, Skin		OECD - SIDS/SIAR	mfg	
				Maine (CA Prop 65); WA		×
5160-02-1	D&C Red No. 9	Cancer		Appen1	Paints, cosmetics, drugs, inks	^
				Maine (CA Prop 65); WA	Chemical intermediate for	
5216-25-1	p-a,a,a-Tetrachlorotoluene	Cancer		Appen1	dyes, organic chemicals	
5234-68-4	Carboxin	Body weight, Mortality, Organs		IRIS; WA Appen1	Pesticide	
	Propanenitrile, 3-[[2-(acetyloxy)ethyl][4-					
	[(2,6-dichloro-4-		х	Maine (Canada DRIT): MA		
5261-31-4	nitrophenyl)azo]phenyl]amino]- (C.I. Disperse Orange 30)			Maine (Canada PBiT); WA Appen1	Dyos	
3201-31-4	benzenamine, 4,4'-methylenebis[N-(1-			Maine (OSPAR Chemicals of	Dyes	
5285-60-9	methylpropyl)-		x	Concern); WA Appen1		
2202-00-3	meuryipropyi)-	l .	1	Concern, wa Appeni	1	1



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
F20F 7F 4	Dibana (a a)fluana athana		x	Maine (EPA Final PBT Rule for	Carabonatian burnandorat	
5385-75-1	Dibenzo(a,e)fluoranthene	Liver Bearedustics Colors		TRI); WA Appen1	Combustion by-product Pharmaceutical mfg, lubricant	
5419-55-6	Triisopropylborate	Liver, Reproduction, Spleen, Thyroid		EPA - HC	additive	х
5419-55-0	PBDE-047 [2,2',4,4'-	Triyroid		EPA - HC	Flame retardants added to	
5436-43-1	Tetrabromodiphenyl ether]		x	Oregon P3 List; WA Appen1	plastic products	
3430-43-1	retrabioinodiphenyl ether]			Oregon P3 List, WA Appeni	plastic products	
				Maine (EU Endocrine Disruptor);		
5466-77-3	2-ethyl-hexyl-4-methoxycinnamate	Endocrine system		WA Appen1; WA CHCC		
5400-77-3	2-etifyi-nexyi-4-methoxytimamate	Litaderine system		Maine (OSPAR Chemicals of	Antioxidant and stabilizer in	
5510-99-6	phenol, 2,6-bis(1-methylpropyl)-		x	Concern); WA Appen1	plastics	
5510 55 0	priction, 2,0 bis(1 metriyipropyr)			IARC 2A; NTP reasonably	prastics	
5522-43-0	1-nitropyrene	Cancer		anticipated	exhaust particulate	
3322 43 0	(S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-			Maine (EU Reproductive	CATIGOR POLITICALITY	
5543-57-7	benzopyrone	Reproduction		Toxicant)	Sunscreen	
33.337	Delizopy, one	neproduction		1 Omedine)	By-product from water	
5589-96-8	Bromochloroacetic acid	Cancer		CA Prop 65	disinfection	
				Maine (CA Prop 65); WA		
5902-51-2	Terbacil	Development		Appen1	Pesticide	
	cyclohexene, 1-methyl-4-(1-	·		Maine (OSPAR Chemicals of	Flavorings, fragrances,	
5989-27-5	methylethenyl)-, (R)-		Х	Concern); WA Appen1	cosmetics, insecticide	
	3-Amino-9-ethylcarbazole			Maine (CA Prop 65); WA		
6109-97-3	hydrochloride	Cancer		Appen1	Dye	
	Heptanoic acid, tridecafluoro-,			Maine (Canada PBiT); WA		
6130-43-4	ammonium salt		Х	Appen1		
				Maine (CA Prop 65; EU		
				Endocrine Disruptor); WA		
6164-98-3	Chlordimeform	Cancer, Endocrine system		Appen1	Pesticide (EPA reg. cancelled)	
	Ethanol, 2-[[4-[(2,6-dichloro-4-		x	Maine (Canada PBiT); WA		
6232-56-0	nitrophenyl) azo]phenyl]methylamino]-			Appen1		
	Phenol, 4-[[4-(phenylazo)phenyl]azo]-		Х	Maine (Canada PBiT); WA		
6250-23-3	(C.I. Disperse Yellow 23)			Appen1	Dye	
	Phenol, 4-[[4-(phenylazo)-1-		X	Maine (Canada PBiT); WA		
6253-10-7	naphthalenyl]azo]-		,	Appen1	Dye	
	[1,1'-Biphenyl]-4-ol, 3,4',5-tris(1,1-		X	Maine (Canada PBiT); WA		
6257-39-2	dimethylethyl)-			Appen1		
	Phenol, 2-methyl-4-[[4-					
5000 07 1	(phenylazo)phenyl]azo]- (Disperse Fast		Х	Maine (Canada PBiT); WA		
6300-37-4	Yellow 4K)			Appen1	Dye	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
		. , ,		Maine (CA Prop 65); WA	. , ,	
6358-53-8	Citrus Red No. 2	Cancer		Appen1	Dye	
	2,7-Naphthalenedisulfonic acid, 3-[[2,2'-					
	dimethyl-4'-[[4- [[(4-					
	methylphenyl)sulfonyl]oxy]phenyl]azo][		x			
	1,1'-biphenyl ]-4-yl]azo]-4-hydroxy-,			Maine (Canada PBiT); WA		
6358-57-2	disodium salt			Appen1	Dye	
	2-Naphthalenamine, N-ethyl-1-[[4-					
	(phenylazo)phenyl]azo]- (C.I. Solvent		x	Maine (Canada PBiT); WA		
6368-72-5	Red 19)			Appen1	Dye	
	Benzo[b]thiophen-3(2H)-one, 5,7-					
	dichloro-2-(6-chloro- 4-methyl-3-		x			
	oxobenzo[b]thien-2(3H)-ylidene)-4-			Maine (Canada PBiT); WA		
6371-23-9	methyl -			Appen1		
6070.04.5	Naphth[2,3-c]acridine-5,8,14(13H)-		x	Maine (Canada PBiT); WA		
6373-31-5	trione, 6,10,12-trichloro-			Appen1		
	3H-Pyrazol-3-one, 4-[(2-			AAsia (Caaada BBIT) MA		
6407.74.5	chlorophenyl)azo]-2, 4-dihydro-5-		Х	Maine (Canada PBiT); WA	Dura	
6407-74-5	methyl-2-phenyl- 3H-Pyrazol-3-one, 4-[(2,4-			Appen1	Dye	
	dimethylphenyl)azo] -2,4-dihydro-5-			Maine (Canada PBiT); WA		
6407-78-9	methyl-2-phenyl-		Х	Appen1	Dye	
0407-76-9	9,10-Anthracenedione, 1-			Аррепі	Dye	
	(methylamino)-4-[(3-		X	Maine (Canada PBiT); WA		
6408-50-0	methylphenyl)amino]-		^	Appen1	Dye	
0 100 30 0	inetry preny gammoj			пррепі	- Dyc	
	2-Anthracenecarboxaldehyde, 1-amino-					
	9,10-dihydro-9,10-dioxo-, 2-[(1-amino-		х			
	9,10-dihydro- 9,10-dioxo-2-			Maine (Canada PBiT); WA		
6409-68-3	anthracenyl)methylene]hydrazone			Appen1	Dye	
	2-Naphthalenol, 1-[(4-chloro-2-			Maine (Canada PBiT); WA		
6410-13-5	nitrophenyl)azo]- (Pigment Red 6)		Х	Appen1	Dye	
	2-Naphthalenecarboxamide, N-(5-					
	chloro-2,4-dimethoxyphenyl) -4-[[5-					
	[(diethylamino)sulfonyl]-2-		х			
	methoxyphenyl ]azo]-3-hydroxy- (C.I.			Maine (Canada PBiT); WA		
6410-41-9	Pigment Red 5)			Appen1	Dye	
	Naphth[2,3-c]acridine-10-carboxamide,					
	N-[5-(benzoylamino)-9,10- dihydro-9,10-	1	X			
6447.06.7	dioxo-1-anthracenyl]-5,8,13,14-			Maine (Canada PBiT); WA		
6417-38-5	tetrahydro -5,8,14-trioxo-			Appen1	Dye	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
C450.04.5	C.I. Asid Dad 114	Company		Maine (CA Prop 65); WA	Dura	
	C.I. Acid Red 114 Carbamic acid, [4-[[4-[(4-	Cancer		Appen1	Dye	
6465-02-7	hydroxyphenyl) azo]-2- methylphenyl]azo]phenyl]-, methyl ester		х	Maine (Canada PBiT); WA Appen1		
	2-Anthracenesulfonic acid, 4,4'-[(1-methylethylidene) bis(4,1-phenyleneimino)]bis[1-amino-9,10-dihydro -9,10-dioxo-, disodium salt (C.I. Acid Blue 127)		x	Maine (Canada PBiT); WA Appen1	Dye	
6535-42-8	1-Naphthalenol, 4-[(4- ethoxyphenyl)azo]- (C.I. Solvent Red 3)		х	Maine (Canada PBiT); WA Appen1	Dye	
6683-19-8	Irganox 1010	Development		EPA - HC	Antioxidant	х
	Peroxide, (3,3,5- trimethylcyclohexylidene) bis[(1,1- dimethylethyl)	·	х	Maine (Canada PBiT); WA Appen1	Rubber mfg	
	1-Naphthalenemethanol, α,α-bis[4- (dimethylamino) phenyl]-4- (phenylamino)-		х	Maine (Canada PBiT); WA Appen1	Colorants	
6842-15-5	1-propene, tetramer		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	Kidney, Liver		OECD - SIDS/SIAR	Plasticizer	х
6936-40-9	benzene, 1,2,4,5-tetrachloro-3-methoxy-		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
7012-37-5	1,1'-biphenyl, 2,4,4'-trichloro-	Endocrine system	х	Maine (EU Endocrine Disruptor; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	Electrical systems	
	5,6-Cyclopento-1,2-benzanthracene	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1		
	pyrimido[5,4-d]pyrimidine, 2,6-dichloro- 4,8-di-1-piperidinyl-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Chemical intermediate	
7147-42-4	Butanamide, 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-methylphenyl)-3-oxo-		х	Maine (Canada PBiT); WA Appen1	Pigments, inks, plastics	
7287-19-6	Prometryn	Bone marrow, Kidney, Liver		IRIS; WA Appen1	Pesticide	



CAC Marshau	Charlest No.	Hadda adadada	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very		the constitution of the	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years)
7328-97-4	Oxirane, 2,2',2",2"'-[1,2- ethanediylidenetetrakis( 4,1- phenyleneoxymethylene)]tetrakis -		х	Maine (Canada PBiT); WA Appen1	Epoxy resins	х
7320-37-4	phenyleneoxymethylene/jtetrakis -			Maine (EU Endocrine Disruptor);	<u> </u>	
7400-08-0	p-Coumaric acid (PCA)	Endocrine system		WA Appen1	Reactant	
7439-92-1	Lead	Cancer, Development, Reproduction	х	Maine (CA Prop 65; IRIS; NTP 11th ROC; TRI PBT Chemical List; EPA Priority PBT; NWM Priority Chemicals); WA Appen1; Oregon P3 List		x (2006)
7 133 32 1	1	Reproduction		WA Appen1; Minnesota HRV;	Batteries, inks, dyes (several	
7439-96-5	Manganese	Nervous system		Minnesota RAA	other uses)	x (2006)
7439-97-6	Mercury	Development	х	Maine ( CA Prop 65; TRI PBT Chemical List; EPA Priority PBT; NWM Priority Chemicals); WA Appen1; WA CHCC		
7439-98-7	Molybdenum	Blood (uric acid)		IRIS; WA Appen1; WA CHCC	Alloy agent in steel, cast iron; catalyst	x (2006)
				Maine (CA Prop 65; NTP 11th	,	x (2006)
7440-02-0	Nickel (Metallic)	Cancer		ROC); WA Appen1	Jewelry (several other uses)	(,
7440-22-4	Silver	Argyria		WA Appen1; IRIS; Minnesota HRL	Contaminant in water (several uses)	x (2006)
7440-28-0	Thallium salts	Liver		WA Appen1; Minnesota HRL	Coal burning and smelting	
7440-36-0	Antimony	Blood		WA Appen1; WA CHCC; Minnesota HRV	Alloys mfg	x (2006)
7440-38-2	Arsenic and arsenic compounds	Cancer	х	Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC); WA Appen1; WA CHCC; Oregon P3 List; Minnesota HRV	Pesticide, catalyst	
				WA Appen1; IRIS; Minnesota		
7440-39-3	Barium	Cardiovascular system, Kidney		HRL	Alloys, carrier for radium	
7440-41-7	Beryllium and beryllium compounds	Cancer		Maine (CA Prop 65; IARC; IRIS; NTP 11th ROC); WA Appen1; WA CHCC; Minnesota HRV	Component of metal alloys, materials for space options, aircraft brakes (several uses)	
7440-42-8	Boron	Development		WA Appen1; Minnesota RAA	Composite structural materials, high temperature abrasive for alloys (several uses)	x (2006)



			Persistent, Bioaccumulative, Toxic (PBT) or very			
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health enupoint(s)	bloaccullulative (VFVb)	30urce(s)	Ose example(s) of class	OI 4 years)
				Maine (CA Prop 65; IARC; IRIS;		
			х	NTP 11th ROC; NWM Priority		x (2006)
				Chemicals); WA Appen1;		(,
7440 42 0	Co. day's as	Cancer, Development, Kidney,		Oregon P3 List; Minnesota HRV;		
7440-43-9	Cadmium	Reproduction		Minnesota HRL	batteries	
				Maine (CA Prop 65); WA	Metal alloys, aluminum salts, in	x (2006)
7440-48-4	Cobalt metal powder	Cancer		Appen1; WA CHCC	tools (several uses)	(====)
	·			IRIS; WA Appen1; Minnesota	Galvanizing sheet metal,	(2005)
7440-66-6	Zinc	Blood chemistry		HRL	coatings for metals	x (2006)
				Maine (CA Prop 65; EU		
				Reproductive Toxicant); WA		
7446-27-7	Lead phosphate	Cancer, Reproduction		Appen1	Stabilizer in plastics	
7487-94-7	Mercuric chloride	Immune system		IRIS; WA Appen1	Perservative, battery cases	
7406 02 0	C Nitura da mara da	Caraca		Maine (CA Prop 65; NTP 11th		
7496-02-8	6-Nitrochrysene	Cancer		ROC); WA Appen1		
				Maine (REACH Substance of	Absorbent in ammonia masks,	x (2006)
7646-79-9	Cobalt dichloride	Cancer		Very High Concern); WA Appen1	,	X (2000)
				, , , , , , , , , , , , , , , , , , , ,		
7647-01-0	Hydrochloric acid	Eyes, Respiratory system		WA Appen1; Minnesota HRV	Cleaning (several uses)	x
					Catalyst, etchant,	
					superphosphates for fertilizer	x (2006)
7664-38-2	Phosphoric acid	Respiratory system		IRIS; WA Appen1	mfg	
7664 20 2	u de flue de esta	Baratina and an		) A/A A 4 A4' 1 IB\/	Cleaning, catalyst, several	х
7664-39-3	Hydrofluoric acid	Respiratory system		WA Appen1; Minnesota HRV	others	
7664-41-7	Ammonia	Eyes, Respiratory system		WA Appen1; Minnesota HRV	Fertilizer, refrigerant, others	x
	strong inorganic acid mists containing			Maine (CA Prop 65; IARC; NTP	, , ,	
7664-93-9	sulfuric acid	Cancer		11th ROC); WA Appen1	Acids mfg, glue	х
7697-37-2	Nitric acid	Respiratory system		Minnesota HRV	Fertilizer, cleaning	х
7723-14-0	Phosphorus	Development		IRIS; WA Appen1	Phosphoric acid mfg	x (2006)
				Maine (CA Prop 65); WA		
7758-01-2	Potassium bromate	Cancer		Appen1	Oxidizing agent	
7759 10 2	Chlorita (sadium salt)	Nemicus system		IDIC, M/A Appen1	Bleaching agent, water	x (2006)
7758-19-2	Chlorite (sodium salt)	Nervous system		IRIS; WA Appen1 Maine (EU Reproductive	purification, disinfectant	
				Toxicant); REACH Substance of		
7758-97-6	Lead chromate	Cancer, Reproduction		Very High Concern	Pigment	
.,555,70		Tanada in the second in the se		,	Reducing agent, oxygen	
7775-14-6	Sodium dithionite	Eyes, Genotoxic		OECD - SIDS/SIAR	scavenger	х



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
			x	Oregon P3 List; WA Appen1;	Industrial processes; Naturally	
7782-49-2	Selenium			Minnesota HRL	occurring	
7782-50-5	Chlorine	Respiratory system		WA Appen1; Minnesota HRV	Disinfectant	х
					Oxidizing agent, reagent for	
7783-00-8	Selenious acid	Blood		IRIS; WA Appen1	alkyloids	
				IRIS; WA Appen1; Minnesota		x
7783-06-4	Hydrogen sulfide	Respiratory system		HRV	Decaying matter, by product	
				Maine (EU Carcinogen; EU		
				Reproductive Toxicant; REACH		
7784-40-9	Lead hydrogen arsenate	Cancer, Reproduction		Substances of Very High Concern); WA Appen1	Pesticide (not EPA registered)	
7784-40-9	Lead Hydrogen arsenate	Cancer, Reproduction		Concern); WA Appeni	Pesticide (not EPA registered)	
7784-42-1	Arsine	Blood		WA Appen1; Minnesota HRV	Organic synthesis, poison gas	
					_	
			Х	Maine (REACH Substance of	Contaminant from	
	Sodium dichromate, dihydrate	Cancer, Genotoxic, Reproduction		Very High Concern); WA Appen1	electroplating, tanning	
	Perchlorate and Perchlorate salts	Thursid		IDIC, MA Appent	Rocket fuel	x (2006)
7790-98-9	(ammonium perchlorate)	Thyroid		IRIS; WA Appen1	ROCKET TUE!	
					Pesticide (EPA reg. cancelled),	
7803-51-2	Phosphine	Body weight		Minnesota HRV; WA Appen1	organic preparations	
				, and the same of	or game propagation	
				Maine (CA Prop 65; IRIS; NTP		
				11th ROC; EU Endocrine		
				Disruptor; EPA Final PBT Rule		
			Х	for TRI; TRI PBT Chemical List;		
				EPA Priority PBT; WA PBT List;		
				OSPAR Chemicals of Concern);		
8001-35-2	Toxaphene	Cancer, Endocrine system		WA Appen1; Minnesota HRL	Pesticide (EPA reg. cancelled)	
			x	Maine (OSPAR Chemicals of		
8001-50-1	Strobane		^	Concern); WA Appen1	Pesticide (not EPA registered)	
2001 52 0	Crossotos	Canada		Maine (IADC, IDIC), MA Arrest	wood procognistion lubricant	x
8001-58-9	Creosotes	Cancer		Maine (IARC; IRIS); WA Appen1 Maine (Canada PBiT); WA	wood preservation, lubricant	
8002-05-9	Petroleum		х	Appen1	Petroleum	x



				1	1	
CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Gasoline (A complex combination of hydrocarbons separated from natural gas by processes such as refrigeration or absorption. It consists predominantly of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C4 through C8 and boiling in					х
	the range of approximately minus 20°C					
8006-61-9		Nervous system		HSDB	Fuel	
8006-64-2	Turpentine oil	Eyes, Skin		HSDB	Solvent and diluent	х
				Maine (IARC; EU Carcinogen; IRIS); WA Appen1; Minnesota		х
8007-45-2	Coal-tars Coal-tars	Cancer		HRV	Roofing, burning as fuel	
8008-20-6	Kerosene (JP-5, JP-8)	Blood, Gastrointestinal system, Kidney, Nervous system, Respiratory system		HSDB; ATSDR	Jet fuel	x
8018-01-7	Mancozeb	Cancer, Endocrine system		Maine (CA Prop 65; EU Endocrine Disruptor); WA Appen1	Pesticide	
8052-41-3	Stoddard solvent	Liver, Nervous system		HSDB; ATSDR	Spot and stain removal, diluent for paints, coatings and waxes, dry cleaning agent	х
		,		,	, , ,	
8065-48-3	Demeton	Nervous system		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
8068-44-8	Clophen A50	Endocrine system		Maine (EU Endocrine disruptors); WA Appen1	congeners of PCBs	
8072-20-6	ethanol, 1,1-bis(4-chlorophenyl)-, mixed		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
9004-66-4	Iron dextran complex	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	Catalyst, pigment, drugs, agriculture	
9006-42-2	Metiram	Cancer, Development, Endocrine system		Maine (CA Prop 65; EU Endocrine Disruptor); WA Appen1	Pesticide	
9016-45-9	Polyethylene glycol nonlyphenyl ether (nonylphenolethoxylate)	Endocrine system		Maine (OSPAR Chemicals of Concern; EU Endocrine Disruptor); WA Appen1	Surfactant, pesticide (EPA reg. cancelled)	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health andpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Hee evernale(s) or class	of 4 years) <sup>1,2</sup>
CAS Nulliber	Chemical Name	Health endpoint(s)	bioaccumulative (VPVB)	Source(s)	Use example(s) or class	014 years)
					Source of fordiphenylmethane-	
	Methylene Diphenyl Diisocyanate and				4-4'-diisocyanate, used for	
9016-87-9	Polymeric MDI	Respiratory system		Minnesota HRV	particle board binders	
					Pharmaceutical, detection of	x (2006)
10024-97-2	Nitrous oxide	Development		Maine (CA Prop 65)	leaks in pipes	X (2000)
					Electroplating and electro	
10026 24 4	Cabalta Matabasa da da da	Control		Maine (CA Prop 65); WA	chemical industry, colorant,	
10026-24-1	Cobalt sulfate heptahydrate	Cancer		Appen1	drying agent Antioxidant, refining, soldering,	
				Maine (CA Prop 65; NTP 11th	blood tests, fungicide,	
10034-93-2	Hydrazine sulfate	Cancer		ROC); WA Appen1	pharmaceutical	
	.,,			, , , , , , , , , , , , , , , , , , ,		
				Maine (EU Endocrine Disruptor);		(2000)
	Boric acid (has a second CAS #: 11113-			WA Appen1; REACH Substance	Pesticide, flame retardant,	x (2006)
10043-35-3	50-1)	Endocrine system, Reproduction		of Very High Concern	soldering flux, weatherproofing	
				Maine (CA Prop 65); WA	Cancer treatment, research,	
10043-66-0	lodine-131	Development		Appen1	tracer chemical	
10042 02 2	Radan 222 and its descriptions	Canaar		Maine (IARC; NTP 11th ROC);	Decay product of radium	
10043-92-2	Radon-222 and its decay products	Cancer		WA Appen1 Maine (CA Prop 65); WA	Decay product of radium	
10048-13-2	Sterigmatocystin	Cancer		Appen1	Metabolite of aflatoxin	
					Pesticide, bleaching agent,	4
10049-04-4	Chlorine Dioxide	Respiratory system		WA Appen1; Minnesota HRV	disinfectant, leather	x (2006)
				REACH Substances of Very High	matches, explosives, tanning,	
10099-74-8	Lead dinitrate	Development		Concern	mordant	
10102-44-0	Nitrogen Dioxide	Respiratory system		WA Appen1; Minnesota HRV	Bleach, catalyst	
				Maine (OSPAR Chemicals of	Photography, veterinary pharmaceutical, pesticide (EPA	
10108-64-2	Cadmium chloride		х	Concern); WA Appen1	reg. cancelled)	
10100 012	eddinam emoriae			Maine (CA Prop 65; NTP 11th	reg. carreered/	
10124-43-3	Cobalt sulfate	Cancer		ROC); WA Appen1	In batteries, electroplating	x (2006)
10265-92-6	Methamidophos	Nervous system		IRIS; WA Appen1	Pesticide	
			х	Maine (Canada PBiT); WA		
10448-09-6	Cyclotetrasiloxane, heptamethylphenyl-		^	Appen1	Adhesive binder	
				Maine (CA Prop 65; EU		
10452.00.0	Do any otherin	Cancer, Development, Endocrine		Endocrine Disruptor); WA	Destiside	
10453-86-8	Resmethrin	system		Appen1	Pesticide	
10595-95-6	N-Nitrosomethylethylamine	Cancer		Maine (CA Prop 65; IRIS); WA Appen1	Research	
10232-32-0	iv-iviti osometnyietnyiamine	Cancer		Appenii	nesearch	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EU Endocrine Disruptor;		
				OSPAR Chemical of Concern);		
11081-15-5	Phenol, isooctyl-	Endocrine system		WA Appen1	Surfactant	
				Maine (EU Endocrine Disruptor);		
11096-82-5	PCB Aroclor 1260 (Clophen A60)	Endocrine system		WA Appen1	PCB	
				Maine (EU Endocrine Disruptor);		
11097-69-1	PCB Aroclor 1254	Endocrine system		WA Appen1	PCB	
12001-28-4	Asbestos (crocidolite)	Cancer		Maine (EU Carcinogen)		
12001-29-5	Asbestos (chrysotile)	Cancer		Maine (EU Carcinogen)		
				Maine (EU Endocrine Disruptor);	•	
12002-48-1	Trichlorobenzene	Endocrine system		WA Appen1	medium	
12035-36-8	Nickel dioxide	Cancer		Maine (EU Carcinogen)		
				Maine (CA Prop 65; EU		
				Carcinogen; IRIS); WA Appen1;		x (2006)
12035-72-2	Nickel subsulfide	Cancer		Minnesota HRV	Lithium batteries, smelting	
				Maine (CA Prop 65); WA	Nickel salts mfg, Ni-Cd	
12054-48-7	Nickel (II) hydroxide	Cancer		Appen1	batteries	
				Maine (EU Endocrine Disruptor);		
12122-67-7	Zineb	Endocrine system		WA Appen1	Pesticide (EPA reg. cancelled)	
				Maine (CA Prop 65); WA		
12125-56-3	Nickel (III) hydroxide	Cancer		Appen1	Nickel salt	
12172-73-5	Asbestos (amosite)	Cancer		Maine (EU Carcinogen)		
	Palygorskite fibers (> 5mm in length)			Maine (CA Prop 65); WA	Fertilizer production,	
12174-11-7	(Attapulgite)	Cancer		Appen1	suspending aid	
	2-Naphthalenecarboxamide, N-[4-					
	(acetylamino)phenyl] -4-[[5-		х			
	(aminocarbonyl)-2-chlorophenyl]azo]-3-		^	Maine (Canada PBiT); WA		
12236-64-5	hydroxy -			Appen1	Plastics, paints	
	Acetamide, N-[5-[bis[2-(acetyloxy)ethyl]					
	amino]-2-[(2-bromo-4,6-		x			
	dinitrophenyl)azo]-4-ethoxyphenyl ]-			Maine (Canada PBiT); WA		
12239-34-8	(C.I. Disperse Blue 79)			Appen1	Pigment	
			v	Maine (Canada PBiT); WA		
12408-10-5	Benzene, tetrachloro-		Х	Appen1		
				Maine (CA Prop 65; EU		
				Endocrine Disruptor); WA		
12427-38-2	Maneb	Cancer, Endocrine system		Appen1	Pesticide	
				Maine (CA Prop 65; EU	Water softeners, detergents,	
12510-42-8	Erionite	Cancer		Carcinogen); WA Appen1	cracking catalysts	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EU Endocrine Disruptor);	o co communato, co como	, ,
12642-23-8	PCT Aroclor 5442	Endocrine system		WA Appen1		
	C.I. Pigment Red 104 [This substance is					
	identified in the Colour Index by Colour			Maine (EU Reproductive		
12656 05 0	Index Constitution Number, C.I. 77605.],			Toxicant); REACH Substance of	Diamont	
12656-85-8	Lead chromate molybdate sulfate red	Cancer, Reproduction		Very High Concern  Maine (EU Endocrine Disruptor);	Pigment	
12672-29-6	PCB Aroclor 1248	Endocrine system		WA Appen1	PCB	
12072 23 0	. 6571100101 1210	Zindosime ojotem		· · · · · · · · · · · · · · · · · · ·		
					Formerly used for capacitors -	
			Х	Maine (EU Endocrine Disruptor);	current leachate from	
12674-11-2	Aroclor 1016 (PCBs)	Development, Endocrine system		IRIS; WA Appen1	landfills/improper disposal	
				Maine (Canada PBiT; IRIS; EU		
			X	Endocrine Disruptor); WA		
12789-03-6	Chlordane	Cancer		Appen1	Pesticide (EPA reg. cancelled)	
12040 22 4	1 C Have readial discondate	Chin		HCDB	Chemical intermediate,	x
13048-33-4	1,6-Hexanediol diacrylate 4,4'-Dihydroxy-3,3',5,5'-	Skin		HSDB Maine (EU Endocrine Disruptor);	crosslinking agent	
13049-13-3	tetrachlorobiphenyl	Endocrine system		WA Appen1	PCB	
	Benzenamine, 4,4'-[(1-			The second secon		
	methylethylidene) bis(4,1-		x	Maine (Canada PBiT); WA		
13080-86-9	phenyleneoxy)]bis-			Appen1		
				Maine (CA Prop 65; OSPAR		
			Х	Chemicals of Concern); WA		
13121-70-5	stannane, tricyclohexylhydroxy-	Cancer		Appen1	Pesticide (not EPA registered)	
12101 10 1	Elleren			Maine (CA Prop 65); WA	D. attatata	
13194-48-4	Ethoprop	Cancer		Appen1 Maine (CA Prop 65; NTP 11th	Pesticide	
13256-22-9	N-Nitrososarcosine	Cancer		ROC); WA Appen1	Research	
10100 11 0		- Canada		Maine (OSPAR Chemicals of	Tresearch	
	distannoxane, hexakis(2-methyl-2-		x	High Concern); WA Appen1;		
13356-08-6	phenylpropyl)-	Cancer		Oregon P3 List	Pesticide	
				Maine (EU Reproductive		
13424-46-9	Lead azide, lead diazide	Reproduction		Toxicant)	Explosives	
10160 55 5				Maine (CA Prop 65; IRIS); WA	Chemical intermediate,	
13463-39-3	Nickel carbonyl	Cancer, Development		Appen1	catalyst, glass plating	
13463-67-7 13530-65-9	Titanium dioxide	Respiratory system  Cancer		HSDB; WA Appen1 Maine (EU Carcinogen)	Pigment, pharmaceutical	Х
13330-03-3	Zinc chromates	Califer		Maine (CA Prop 65; NTP 11th	Research, spandex materials	
13552-44-8	4,4'-Methylenedianiline dihydrochloride	Cancer		ROC); WA Appen1	mfg	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
13560-89-9	Dechlorane plus	Respiratory system	21000001110110110 (01.02)	HSDB; WA Appen1	Fire retardant	X
10000 00 0	peomerane plus	nespiratery system		Maine (EU Endocrine Disruptor);	i i i c retai aant	
13593-03-8	Quinalphos = Chinalphos	Endocrine system		WA Appen1	Pesticide (not EPA registered)	
	1,1'-biphenyl, 2,2',3,3',4,4',5,5',6,6'-			Maine (OSPAR Chemicals of		
13654-09-6	decabromo-		x	Concern); WA Appen1	Flame retardant	
					Flame retardant in plastics,	
13674-87-8	Tris(1,3-dichloro-2-propyl)phosphate	Kidney, Liver		HSDB; WA Appen1	secondary plasticizer	х
1307 1 07 0	benzenamine, 4,4'-methylenebis[2,6-			Maine (OSPAR Chemicals of	secondary production	
13680-35-8	diethyl-		x	Concern); WA Appen1	Chemical intermediate	
10000 00 0				concern, www.ppenii	Circinical intermediate	
13768-00-8	Asbestos (non-asbestiform Actinolite)	Cancer		IARC 1	insulation, roofing	
13700 00 0	Benzo[b]thiophen-3(2H)-one, 4,7-	Carreer		, I	insulation, roomig	
	dichloro-2-(4,7-dichloro- 3-		х	Maine (Canada PBiT); WA		
14295-43-3	oxobenzo[b]thien-2(3H)-ylidene)-		^	Appen1	Pigment red 88	
1.233 .3 3	one series (significance)			, ,ppc1	i igniene reu ee	
14567-73-8	Asbestos (non-asbestiform Tremolite)	Cancer		IARC 1	insulation, roofing	
14797-55-8	Nitrate (as nitrogen)	Blood, Development		WA Appen1; Minnesota HRL	Biological oxidations	
				, , , , , , , , , , , , , , , , , , , ,	Water contaminant from	
					bacterial action on nitrates	
					(from fertilizer or wastes),	
14797-65-0	Nitrite(1)-	Blood, Development		IRIS; WA Appen1	foods	
	Silica, crystalline (inhaled in the form of			- 7 1-1		
	guartz or cristobalite from occupational					x (2006)
14808-60-7	sources)	Cancer		Maine (IARC); WA Appen1	Glass, abrasives	
	,			, , , , , , ,		
	3,5-dioxa-6-aza-4-phosphaoct-6-ene-8-		x	Maine (OSPAR Chemicals of		
14816-18-3	nitrile, 4-ethoxy-7-phenyl-, 4-sulfide			Concern); WA Appen1	Pesticide (not EPA registered)	
				Maine (EU Endocrine Disruptor);		
14835-94-0	o,p'-DDMU	Endocrine system		WA Appen1	Pesticide breakdown product	
				Maine (EU Endocrine Disruptor);	·	
14962-28-8	4-Hydroxy-2',4',6'-trichlorobiphenyl	Endocrine system		WA Appen1	PCB congener	
				Maine (EU Endocrine Disruptor);		
15087-24-8	3-Benzylidene camphor (3-BC)	Endocrine system		WA Appen1	UV filter	
	9,10-anthracenedione, 4,8-diamino-2-(4		x	Maine (OSPAR Chemicals of		
15114-15-5	ethoxyphenyl)-1,5-dihydroxy-			Concern); WA Appen1	Textiles, coloring agent	
	Lead 2,4,6-trinitro-m-phenylene					
	dioxide, lead 2,4,6-trinitroresorcinoxide,			Maine (EU Reproductive		
15245-44-0	lead styphnate	Reproduction		Toxicant)	Initiating explosive	
15299-99-7	Napropamide	Reproduction		IRIS; WA Appen1	Pesticide	
15323-35-0	Musk indane		х	Oregon P3 List	Fragrance	



			1			
			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; IRIS); WA	Hair care, water disinfection by-	
15541-45-4	Bromate	Cancer		Appen1	product	
				Maine (EU Carcinogen; REACH		
				Substances of Very High		
15606-95-8	triethyl arsenate	Cancer		Concern); WA Appen1	Semiconductor doping agent	
	Propanenitrile, 3-[[4-[(4-					
	nitrophenyl)azo] phenyl][2-		x			
	[[(phenylamino)carbonyl]oxy]ethyl]ami			Maine (Canada PBiT); WA		
15958-27-7	no ]-			Appen1		
45050 51 5	9,10-Anthracenedione, 1-[[4-		x	Maine (Canada PBiT); WA		
15958-61-9	(phenylsulfonyl)phenyl]amino]-			Appen1		
		Dianel Conser Fuelconing quatern		Maine (CA Prop 65; EU		
15972-60-8	Alachlor	Blood, Cancer, Endocrine system,		Endocrine Disruptor); WA Appen1; Minnesota HRL	Pesticide	
15972-00-8	Alactilor	Kidney, Liver			Pesticide	
16071-86-6	Direct Brown 95 (technical grade)	Cancer		Maine (CA Prop 65); WA Appen1	Pigment brown 95	
10071-80-0	Direct Brown 93 (technical grade)	Calicel		Appeni	Copolymer in production of	
					ethylene-propylene diene	x
16219-75-3	5-Ethylidene-2-norbornene	Body Weight, Liver, Thyroid		OECD - SIDS/SIAR	monomer	^
	Acetamide, N-[5-[[2-(acetyloxy)ethyl]		×			
	(phenylmethyl)amino]-2-[(2-chloro-4,6-			Maine (Canada PBiT); WA		
16421-40-2	dinitrophenyl )azo]-4-methoxyphenyl]-			Appen1	Dye	
	Acetamide, N-[5-[[2-(acetyloxy)ethyl]		x			
	(phenylmethyl)amino]-2-[(2,4-			Maine (Canada PBiT); WA		
16421-41-3	dinitrophenyl)azo]-4 -methoxyphenyl]-			Appen1	Dye	
				Maine (CA Prop 65; IARC; NTP		
16543-55-8	N-Nitrosonornicotine	Cancer		11th ROC); WA Appen1	Research	
	Gyromitrin (Acetaldehyde			Maine (CA Prop 65); WA		
16568-02-8	methylformylhydrazone)	Cancer		Appen1	Mushroom natural toxin	
	Propanenitrile, 3-[ethyl[3-methyl-4-[(6-					
16506 42.0	nitro- 2-		Х	Maine (Canada PBiT); WA	Dura	
16586-42-8 16672-87-0	benzothiazolyl)azo]phenyl]amino]-	Nonvous system		Appen1	Dye Plant growth regulator	
16752-77-5	Ethephon Methomyl	Nervous system		IRIS; WA Appen1	Plant growth regulator Pesticide	
16/52-77-5	Nickel sulphide	Kidney, Spleen Cancer		IRIS; WA Appen1 Maine (EU Carcinogen)	Nickel ore	
10012-34-7	21H,23H-Porphine, 5,10,15,20-tetra-4-	Curicei		Maine (Canada PBiT); WA	TAICKET OFE	
16834-13-2	pyridinyl-		х	Appen1	Dye	
10034-13-2	pyriumyi-			Uhheiit	Dyc	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Ethanol, 2,2'-[[4-[(2-bromo-6-chloro- 4-					
	nitrophenyl)azo]-3-		х	Maine (Canada PBiT); WA		
17464-91-4	chlorophenyl]imino]bis-			Appen1	Dye	
				Maine (Canada PBiT; OSPAR		
	phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-		х	Chemicals of Concern); WA		х
17540-75-9	methylpropyl)-			Appen1	Plastics, antioxidant	
				Maine (EU Reproductive		
17570-76-2	Lead(II) methanesulphonate	Reproduction		Toxicant)		
				Maine (CA Prop 65); WA	Pesticide (EPA reg. cancelled),	
17804-35-2	Benomyl	Development, Reproduction		Appen1	pharmaceutical	
	phosphorothioic acid, O-(2,5-dichloro-4-		х	Maine (OSPAR Chemicals of		
18181-70-9	iodophenyl) O,O-dimethyl ester			Concern); WA Appen1	Pesticide (not EPA registered)	
				Maine (IARC; IRIS; NTP 11th		
				ROC); WA Appen1; Minnesota	Chrome plating, dyes,	
18540-29-9	Chromium(VI)	Cancer, Respiratory system		HRV	pigments	
	Nitrilotriacetic acid, trisodium salt			Maine (CA Prop 65); WA		
18662-53-8	monohydrate	Cancer		Appen1	Detergent	
		Cancer, Development,		Maine (CA Prop 65; NTP 11th		
18883-66-4	Streptozocin (streptozotocin)	Reproduction		ROC); WA Appen1	Research, pharmaceutical	
10011 00 0				Maine (CA Prop 65); WA		
19044-88-3	Oryzalin	Cancer		Appen1	Pesticide	
				Maine (OCDAD Chemicals of		
10200 12 1	propanoic acid, 2-(2,4,5-		Х	Maine (OSPAR Chemicals of	Dooticide (FDA non concelled)	
19398-13-1	trichlorophenoxy)-, 2-butoxyethyl ester			Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
			.,	Maine (EDA Final DRT Bule for		
10400 74 2	1 2 2 7 9 0 Hoveshloredibense a dievia		х	Maine (EPA Final PBT Rule for	Combustion by product	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin			TRI; WA PBT List); WA Appen1 Maine (CA Prop 65); WA	Combustion by-product	
19666-30-9	Oxadiazon	Cancer, Development		Appen1	Pesticide	
19000-30-9	Oxadiazon	Cancer, Development		Appeni	resticide	
	Propanenitrile, 3-[4-[(5-nitro-2-		x	Maine (Canada PBiT); WA		
19745-44-9	thiazolyl) azo](2-phenylethyl)amino]-		^	Appen1		
13743-44-3	Phenol, 4-[[2-methoxy-4-[(4-			Аррент		
	nitrophenyl)azo]phenyl]azo]- (Disperse		x	Maine (Canada PBiT); WA		
19800-42-1	Orange 29)		^	Appen1	Dye	
13000 TZ 1	9,10-Anthracenedione, 1,8-dihydroxy-4-			, when a		
	nitro-5-(phenylamino)- (Disperse Blue		x	Maine (Canada PBiT); WA		
20241-76-3	77)		^	Appen1	Dye	
				Maine (CA Prop 65); WA	-10	
20265-96-7	p-Chloroaniline hydrochloride	Cancer		Appen1	Dye, chemical intermediate	



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			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Treater enapolités	Dioaccamalative (vi vb)	Maine (CA Prop 65); WA	Ose example(s) of class	or 4 years,
20354-26-1	Methazole	Development		Appen1	Pesticide (EPA reg. cancelled)	
				Maine (EU Endocrine Disruptor);	`	
21087-64-9	Metribuzin	Kidney, Liver		WA Appen1	Pesticide	
21136-70-9	Benzidine sulphate	Cancer		Maine (EU Carcinogen)	Dyes	
	phenol, 4-(1,1-dimethylethyl)-,			Maine (OSPAR Chemicals of		
21150-89-0	hydrogen phosphate		Х	Concern); WA Appen1		
	phosphonothioic acid, phenyl-, O-(4-					
	bromo-2,5-dichlorophenyl) O-methyl		×	Maine (OSPAR Chemicals of		
21609-90-5	ester (Leptophos)			Concern); WA Appen1	Pesticide (not EPA registered)	
				Maine (CA Prop 65); WA		
21725-46-2	Cyanazine	Development, Kidney, Liver		Appen1; Minnesota HRL	Pesticide (EPA reg. cancelled)	
				Maine (Canada PBiT); WA		
21811-64-3	Phenol, 4,4'-[1,4-phenylenebis(azo)]bis-		Х	Appen1	Dye	
	benzene, 1,1'-(1-					
	methylethylidene)bis[3,5-dibromo-4-		x	Maine (OSPAR Chemicals of		
21850-44-2	(2,3-dibromopropoxy)-			Concern); WA Appen1	Flame retardant in plastics	
22224-92-6	Fenamiphos	Nervous system		IRIS; WA Appen1	Pesticide	
				Maine (CA Prop 65; IARC); WA	Semiconductors, laser, solar	
22398-80-7	Indium phosphide	Cancer		Appen1	cells	
				Maine (CA Prop 65); WA	Emissions from combustion	
22506-53-2	3,9-Dinitrofluoranthene	Cancer		Appen1	sources	
				Maine (CA Prop 65; WA PBT		
			х	list); WA Appen1; Oregon P3		
22967-92-6	Methyl mercury	Development, Nervous system		List; Minnesota HRV	In fish, seed treatment	
	9H-Carbazole-1-carboxamide, N-(4-		x	Maine (Canada PBiT); WA		
23077-61-4	chlorophenyl)-2-hydroxy-			Appen1		
23103-98-2	Pirimicarb	Cancer		Maine (CA Prop 65)	Pesticide (EPA reg. cancelled)	
23135-22-0	Oxamyl	Body weight		IRIS; WA Appen1	Pesticide	
				,		
22255 64 0	Ethanol, 2,2'-[[3-chloro-4-[(2,6-dichloro-		Х	Maine (Canada PBiT); WA		
23355-64-8	4-nitrophenyl)azo]phenyl]imino]bis-			Appen1	Dye	
22564.05.0	This above to south 1	Barrad adda		Maine (CA Prop 65); WA	Basicida alcanasa di d	
23564-05-8	Thiophanate methyl	Reproduction		Appen1	Pesticide, pharmaceutical	
22050 50 5	Dranamida	Consor		Maine (CA Prop 65); WA	Posticido	
23950-58-5	Pronamide	Cancer		Appen1	Pesticide	
24124 25 2	Stannane, tributyl[(1-oxo-9,12-	Endosvino system		Maine (EU Endocrine Disruptor);		
24124-25-2	octadecad	Endocrine system		WA Appen1	Antifouling	
24207.26.4	Maniguat chlorida	Blood, Body weight, Nervous		IDIC: WA Appoint	Posticido	
24307-26-4	Mepiquat chloride	system		IRIS; WA Appen1	Pesticide	



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CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
erio itambei	1-Octanesulfonamide,	Treater enapolité(s)	Bioaccamalative (or ob)	Source(s)	OSC CHAMPIC(S) OF Class	or 4 years,
24448-09-7	1,1,2,2,3,3,4,4,5,5,6,6,7, 7,8,8,8- heptadecafluoro-N-(2-hydroxyethyl)-N- methyl -		х	Maine (Canada PBiT); WA Appen1	PFC	
24610-00-2	Benzonitrile, 2-[[4-[(2-cyanoethyl)(2-phenylethyl) amino]phenyl]azo]-5-nitro-		х	Maine (Canada PBiT); WA Appen1		
25013-15-4	Vinyl toluene	Nervous system, Respiratory system		HSDB; NTP	Resins, coating, chemical intermediate in insecticides	х
25013-16-5	butylhydroxyanisol	Cancer, Endocrine system		Maine (CA Prop 65; NTP 11th ROC; OSPAR Chemicals of Concern; EU Endocrine Disruptor); WA Appen1; WA CHCC	Commercial stabilizer,	
25036-25-3	2,2'-bis(2-(2,3-epoxypropoxy)phenyl)- propane	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1	Formation of epoxy resins	
25057-89-0	Bentazon (Basagran)	Blood		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
25150-28-1	Propanenitrile, 3-[[4-[(6,7-dichloro-2-benzothiazolyl) azo]phenyl]ethylamino]-		х	Maine (Canada PBiT); WA Appen1	Dye	
25154-52-3	phenol, nonyl-	Endocrine system	x	Maine (EU Endocrine Disruptor; OSPAR Chemicals of Concern); WA Appen1; WA CHCC	Heat stabilizer, bactericide	
25155-25-3	Peroxide, [1,3(or 1,4)-phenylenebis(1-methylethylidene)]bis[(1,1-dimethylethyl)		х	Maine (Canada PBiT); WA Appen1	Polymer initiator	х
25168-15-4	acetic acid, (2,4,5-trichlorophenoxy)-, isooctyl ester		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (not EPA registered)	
25214-70-4	Formaldehyde, oligomeric reaction products with aniline	Cancer		REACH Substances of Very High Concern	hardener for epoxy resins, polymer production	
25321-09-9	benzene, bis(1-methylethyl)-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	In gasoline	х
25321-14-6	Dinitrotoluene (isomers mixture) DNT	Adrenal glands, Liver		OECD - SIDS/SIAR; WA Appen1	Production of diisocyante, explosives mfg, plasticizer	х
25340-17-4	Benzene, diethyl-	Development		EPA - RBP	Reactant	X



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAC November	Character L Name	U10b42-4/-3	Persistent, very	Comments	Harana and to be also	•
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (WA PBT List; EU PBT List;		
			X	REACH Substances of Very High		
				Concern); WA Appen1; WA		
25637-99-4	Hexabromocyclododecane			CHCC; Oregon P3 List	Flame retardant	
				Maine (EU Reproductive		
25808-74-6	Lead hexafluorosilicate	Reproduction		Toxicant)	Refining lead	
				,	, J	
	Hexanedioic acid, bis[2-[[4-(2,2-					
	dicyanoethenyl) -3-		Х	Maine (Canada PBiT); WA		
25857-05-0	methylphenyl]ethylamino]ethyl] ester			Appen1	Dye	
	phenol, 2-(2H-benzotriazol-2-yl)-4,6-			Maine (OSPAR Chemicals of		
25973-55-1	bis(1,1-dimethylpropyl)-		Х	Concern); WA Appen1	Antioxidant	x
				Maine (OSPAR Chemicals of		
26140-60-3	Terphenyl		Х	Concern); WA Appen1	Heat transfer agent	Х
	A-alpha-C (2-Amino-9H-pyrido[2,3-		v	Maine (CA Prop 65); WA	Formed during cooking of	
26148-68-5	b]indole)	Cancer	Х	Appen1	meat/fish	
				Maine (EU Endocrine Disruptor);		
26239-64-5	Stannane, tributyl[[[1,2,3,4,4a,4b,5,6,1	Endocrine system		WA Appen1	Antifouling	
	2-propenoic acid, 2-methyl-, methyl			Maine (EU Endocrine Disruptor);		
26354-18-7	ester = Stannane, tributylmeacrylate	Endocrine system		WA Appen1	Antifouling	
25222 25 2	benzenamine, N-(cyclopropylmethyl)-		Х	Maine (OSPAR Chemicals of		
26399-36-0	2,6-dinitro-N-propyl-4-(trifluoromethyl)-			Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
26447.40.4	havabramadadasana		x	Maine (OSPAR Chemicals of	Flame retardent	
26447-49-4	hexabromododecane			Concern); WA Appen1 Maine (CA Prop 65; NTP 11th	Flame retardant	
				ROC); WA Appen1; Minnesota	In polyurethane foams, cross-	.,
26471-62-5	Toluene diisocyanate	Cancer, Respiratory system		HRV	link in nylon 6	х
204/1-02-3	Toluetie ulisocyaliate	Cancer, Nespiratory system		THILV	IIIIK III IIYIUII U	
	1,3,5-triazine-2,4,6(1H,3H,5H)-trione,		X	Maine (OSPAR Chemicals of		
26603-40-7	1,3,5-tris(3-isocyanatomethylphenyl)-		^	Concern); WA Appen1		
_3003 TO /	2,5,5 tho(5 isocyanacometry)phenyl			Consering, WWW.ppenii	Airbags in vehicles,	
26628-22-8	  Sodium azide	Body weight		IRIS; WA Appen1	preservative	
				Maine (EU Endocrine Disruptor);	p. 222. 30070	
26636-32-8	Tributyltinnaphthalate	Endocrine system		WA Appen1	Non-ionic detergent	
				Maine (CA Prop 65); WA		
26644-46-2	Triforine	Development		Appen1	Pesticide	
				Maine (CA Prop 65); WA	Plasticizer for polyvinyl chloride	x
26761-40-0	Di-isodecyl phthalate (DIDP)	Development		Appen1	film, sheet coated fabrics	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Propanamide, N-[5-[bis[2-					
	(acetyloxy)ethyl] amino]-2-[(2-chloro-4-		x	Maine (Canada PBiT); WA		
26850-12-4	nitrophenyl)azo]phenyl] -			Appen1	Dye	
	phosphorodithioic acid, O,O-diisooctyl			Maine (OSPAR Chemicals of	,	
26999-29-1	ester		Х	Concern); WA Appen1	Zinc compound	
	Phenol, (1,1,3,3-tetramethylbutyl)- =			Maine (EU Endocrine Disruptor);		
27193-28-8	Octylphenol	Endocrine system		WA Appen1	Pesticide (EPA reg. cancelled)	
27208-37-3	Cyclopenta[cd]pyrene	Cancer		Maine (IARC); WA Appen1	In carbon black	
27304-13-8	Oxychlordane, single isomer	Carreer	Х	Oregon P3 List; WA Appen1	Pesticide	
27314-13-2	Norflurazon	Liver, Thyroid	^	IRIS; WA Appen1	Pesticide	
27314-13-2	9,10-Anthracenedione, 1-amino-4-	Liver, myroid		Maine (Canada PBiT); WA	resticiue	
27241 22 0			x	, ,,	Chamical intermediate	
27341-33-9	[(methoxyphenyl)amino]-			Appen1 Maine (OSPAR Chemicals of	Chemical intermediate	
				'		
	1,2-benzenedicarboxylic acid, diisooctyl			Concern; equivalent); WA		Х
27554-26-3	ester	Endocrine system		Appen1	Plasticizer	
			x	Maine (OSPAR Chemicals of		
27753-52-2	nonabromobiphenyl		^	Concern); WA Appen1	Flame retardant	
			x	Maine (OSPAR Chemicals of		
27858-07-7	octabromobiphenyl		^	Concern); WA Appen1	Flame retardant	
28249-77-6	Thiobencarb	Blood chemistry, Body weight		IRIS; WA Appen1	Pesticide	
				Maine (CA Prop 65); WA		
28407-37-6	C.I. Direct Blue 218	Cancer		Appen1	Dye	
	3,3'-Dichloro-4,4'-diamino-diphenyl			Maine (CA Prop 65); WA		
28434-86-8	ether	Cancer		Appen1	Epoxy resin hardeners	
28680-45-7	heptachloronorbornene		х	Maine (OSPAR Chemicals of Concern; OSPAR Chemicals for Priority Action); WA Appen1	Chemical intermediate	
28824-41-1	Propanenitrile, 3-[[4-[(4,6-dibromo-2-benzothiazolyl) azo]phenyl]ethylamino]-		x	Maine (Canada PBiT); WA Appen1		
29081-56-9	Ammonium salt [Perfluorooctane sulfonates (PFOS)]	Development, Liver, Thyroid	х	Maine (Canada PBiT; WA PBT list); WA Appen1; Minnesota HRL	PFC	
29082-74-4	Octachlorostyrene		х	Maine (EPA Final PBT Rule for TRI; TRI PBT Chemical List; EPA Priority PBT); WA Appen1; Oregon P3 List	By-product for agriculture	
29312-59-2	benzenamine, 4-(2,6-diphenyl-4- pyridinyl)-N,N-dimethyl-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Paints, lacquers, varnishes	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
29398-96-7	[1,1'-biphenyl]-4,4'-diamine, N,N'-bis(2,4-dinitrophenyl)-3,3'-dimethoxy-		х	Maine (OSPAR Chemicals of Concern; Canada PBiT); WA Appen1	Colorant	
29457-72-5	Perfluorooctane sulfonate salt (PFOS)	Development, Liver, Thyroid	x	Maine (WA PBT List); WA Appen1; Minnesota HRL	PFC	
29761-21-5	phosphoric acid, isodecyl diphenyl ester		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Plasticizer, lubricant	х
29765-00-2	Benzamide, N-[5-[bis[2-(acetyloxy)ethyl] amino]-2-[(4-nitrophenyl)azo]phenyl]-		x	Maine (Canada PBiT); WA Appen1	Dye	
30668-06-5	1,3-Dichloro-2,2-bis(4-methoxy-3-methylphenyl)propane	Endocrine system		Maine (EU Endocrine disruptor); WA Appen1		
31030-27-0	Benzenamine, 4-[(2-chloro-4- nitrophenyl) azo]-N-ethyl-N-(2- phenoxyethyl)-		x	Maine (Canada PBiT); WA Appen1		
31508-00-6	2,3',4,4',5-Pentachlorobiphenyl	Endocrine system	x	Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI; WA PBT List); WA Appen1; Oregon P3 List	РСВ	
32241-08-0	Heptachloronaphthalene [Polychlorinated naphthalenes]	enderine system	х	Maine (WA PBT List; OSPAR Chemicals of Concern); WA Appen1; Oregon P3 List	PCN	
32534-81-9	Pentabromodiphenyl ether [Polybrominated diphenyl ethers]		x	Maine (WA PBT List; OSPAR Chemicals of Concern; Canada PBiT); WA Appen1	Flame retardant	
32536-52-0	Octabromodiphenyl ether [Polybrominated diphenyl ethers]		x	Maine (WA PBT List; EU PBT List; OSPAR Chemicals of Concern); WA Appen1	Flame retardant	
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl	Endocrine system	х	Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI); WA Appen1; Oregon P3 List	РСВ	
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl	Endocrine system	х	Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI; WA PBT List); WA Appen1; Oregon P3 List	РСВ	
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl	Endocrine system	х	Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI; WA PBT List); WA Appen1; Oregon P3 List	РСВ	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; EU		
				Endocrine Disruptor); WA		
32809-16-8	Procymidone	Cancer, Endocrine system		Appen1	Pesticide (not EPA registered)	
				Maine (CA Prop 65); WA		
33069-62-4	Paclitaxel	Development, Reproduction		Appen1	Research, pharmaceutical	
				Maine (CA Prop 65); WA		
33089-61-1	Amitraz	Development		Appen1	Pesticide	
	2.C. ria					
	2,6-cis- Diphenylhexamethylcyclotetrasiloxane -			Maine (EU Endocrine Disruptor);		
33204-76-1	2,6-cis-[(PhMeSiO)2(Me2SiO)2]	Endocrine system		WA Appen1		
33204-70-1	2,0-CIS-[(F111WESIO)2(IWE2SIO)2]	Lituoci ille system		Maine (NWM Priority		
33213-65-9	Endosulfan, beta		x	Chemicals); WA Appen1	Pesticide (not EPA registered)	
33213 03 3	Endounan, seca			Chemicals), vvv ippeni	r continue (not 21711 ogister eur)	
33820-53-0	Isopropalin	Blood, Organ weight		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
		, g g		Maine (OSPAR Chemicals of	, ,	
33979-03-2	1,1'-biphenyl, 2,2',4,4',6,6'-hexachloro-		Х	Concern); WA Appen1	РСВ	
	Propanenitrile, 3-[[2-(acetyloxy)ethyl][4-	-	x			
	[(5,6-dichloro-2-			Maine (Canada PBiT); WA		
33979-43-0	benzothiazolyl)azo]phenyl]amino ]-			Appen1		
34014-18-1	Tebuthiuron	Body weight		IRIS; WA Appen1	Pesticide	
		Cancer, Development, Endocrine		Maine (CA Dree CE, EU		
		system, Kidney, Liver, Nervous system, Respiratory system,		Maine (CA Prop 65; EU Endocrine Disruptor); WA		
34256-82-1	Acetochlor	Reproduction		Appen1; Minnesota HRL	Pesticide	
34230-02-1	1-Hexanesulfonamide, N-ethyl-	Reproduction		Appenii, Willinesota Fike	resticide	
	1,1,2,2,3,3,4,4,5, 5,6,6,6-tridecafluoro-		х	Maine (Canada PBiT); WA		
34455-03-3	N-(2-hydroxyethyl)-			Appen1		
	, , , ,			Maine (CA Prop 65); WA		
34465-46-8	Hexachlorodibenzodioxin	Cancer		Appen1	Combustion by-product	
	PCB 153 (2,2',4,4',5,5'-			Maine (EU Endocrine Disruptor);		
35065-27-1	Hexachlorobiphenyl)	Endocrine system		WA Appen1; Oregon P3 List	РСВ	
	PCB-138 [2,2',3,4,4',5'-		x	Maine (EU Endocrine Disruptor);		
35065-28-2	hexachlorobiphenyl]	Endocrine system	^	Oregon P3 List	Enclosed electrical systems	
	PCB-180 [2,2',3,4,4',5,5'-		х	Maine (EU Endocrine Disruptor);		
35065-29-3	heptachlorobiphenyl]	Endocrine system		Oregon P3 List	Enclosed electrical systems	
35367-38-5	Diflubenzuron	Blood		IRIS; WA Appen1	Pesticide	
35554-44-0	Imazalil (Enilconazole)	Body weight		IRIS; WA Appen1	Pesticide	



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CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
				Maine (EU Endocrine Disruptor);		
35693-92-6	2,4-6-trichlorobiphenyl	Endocrine system		WA Appen2		
35693-99-3	PCB 52 (2,2';5,5'-Tetrachlorobiphenyl)	Endocrine system	х	Maine (EU Endocrine Disruptor); WA Appen1; Oregon P3 List	PCB	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p- dioxin		х	Maine (EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Combustion by-product	
36065-30-2	2,4,6-bromophenyl 1-2(2,3-dibromo-2-methylpropyl)		х	Maine (OSPAR Chemicals of Concern; OSPAR Chemicals for Priority Action); WA Appen1	РСВ	
36294-24-3	Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, ethyl ester		x	Maine (Canada PBiT); WA Appen1		
36341-27-2	Benzidine acetate	Cancer		Maine (EU Carcinogen)		
36355-01-8	1,1'-biphenyl, hexabromo-		x	Maine (OSPAR Chemicals of Concern); WA Appen1	Flame retardants mfg	
36483-60-0	Benzene, 1,1'-oxybis-, hexabromo deriv.		х	Maine (Canada PBiT); WA Appen1	Flame retardants	
36631-23-9	Stannane, tributyl = Tributyltin naphtalate	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1		
36734-19-7	Iprodione	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide	
36861-47-9	bicyclo(2.2.1)heptan-2-one, 1,7,7- trimethyl-3-[(4- methylphenyl)methylene]-	Endocrine system	х	Maine (EU Endocrine Disruptor; OSPAR Chemicals of Concern); WA Appen1	Cosmetics, UV protectant	
37224-57-0	zinc potassium chromate	Cancer		Maine (EU Carcinogen)		
37680-65-2	PCB 18 (2,2',5-Trichlorobiphenyl)	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1		
37680-73-2	PCB-101 [2,2',4,5,5'-pentachlorobiphenyl]		х	Oregon P3 List	РСВ	
37893-02-0	benzenamine, N-[3-phenyl-4,5-bis[(trifluoromethyl)imino]-2-thiazolidinylidene]-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (not EPA registered)	
38006-74-5	1-Propanaminium, 3- [[(heptadecafluorooctyl) sulfonyl]amino]-N,N,N-trimethyl-, chloride		х	Maine (Canada PBiT); WA Appen1		
38380-07-3	PCB 128 (2,2',3,3',4,4'- Hexachlorobiphenyl)	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EPA Final PBT Rule for		
			х	TRI; WA PBT List); WA Appen1;		
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl			Oregon P3 List		
38444-88-1	3,4',5-trichlorobiphenyl	Endocrine system		Maine (EU Endocrine Disruptor)		
38444-88-1	3,4 ,3-tricinorobiphenyi	Litaocrine system		Waine (LO Endocrine Disruptor)		
	   Nickel, bis[1-[4-(dimethylamino)phenyl]		x	Maine (Canada PBiT); WA		
38465-55-3	2-phenyl-1,2-ethenedithiolato(2-)-S,S']-			Appen1		
	. ,			Maine (OSPAR Chemicals of	Chemical synthesis, chemical	
38521-51-6	benzene, pentabromo(bromomethyl)-		Х	Concern); WA Appen1	intermediate	
			x	Maine (OSPAR Chemicals of	Substitute for PCBs, chemical	
38640-62-9	naphthalene, bis(1-methylethyl)-		^	Concern); WA Appen1	intermediate	
20004 02 0	4.2.2.4.6.7.0.0.0.4		Х	Maine (EPA Final PBT Rule for	<b>5</b>	
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran			TRI; WA PBT List); WA Appen1 Maine (CA Prop 65; NTP 11th	Furan	
39156-41-7	2,4-Diaminoanisole sulfate	Cancer		ROC); WA Appen1	Diagnostic agents, dye	
39130-41-7	2,4-Didiffificatiisole suifate	Caricer		NOC), WA Appeni	Diagnostic agents, dye	
			x	Maine (EPA Final PBT Rule for		
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin			TRI; WA PBT List); WA Appen1	Dioxin	
				Maine (CA Prop 65); WA		
39300-45-3	Dinocap	Development		Appen1	Pesticide (EPA reg. cancelled)	
	2,3,3',4,4',5,5' Heptachlorobiphenyl		x	Maine (WA PBT List); WA		
39365-31-9	[Polychlorinated biphenyls (PCBs)]		X	Appen1	PCB	
	phenol, 2,4-dichloro-5-nitro-, carbonate		x	Maine (OSPAR Chemicals of		
39489-75-3	(2:1) (ester)			Concern); WA Appen1	Chemical synthesis	
39515-41-8	Danitol	Nervous system		IRIS; WA Appen1	Pesticide	
				Maine (EPA Final PBT Rule for		
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl		Х	TRI); WA Appen1; Oregon P3 List	PCB	
33033-31-3	2,3,3,7,7,3,3,3-Heptachiolopiphenyi			List	I CD	
			x	Maine (EU Endocrine Disruptor);		
39765-80-5	Trans-Nonachlor	Endocrine system	, and a second s	WA Appen1; Oregon P3 List	Pesticide (not EPA registered)	
		,		Maine (Canada PBiT); WA	3 33 33 7	
40088-47-9	Benzene, 1,1'-oxybis-, tetrabromo deriv.		Х	Appen1	Flame retardant	
			x	Maine (EU Endocrine Disruptor;		
			^	EPA Final PBT Rule for TRI; WA		
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	Endocrine system		PBT List); WA Appen1	Dioxin	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EPA Final PBT Rule for		
			x	TRI; TRI PBT Chemical List;		
			^	NWM Priority Chemicals); WA		
40487-42-1	Pendimethalin			Appen1; Oregon P3 List	Pesticide	
	Benzene, 1,1'-		x	Maine (Canada PBiT); WA		
40615-36-9	(chlorophenylmethylene)bis[4-methoxy-			Appen1	Specialty organic chemical	
	Propanenitrile, 3-[[4-[(5,6-dichloro-2-					
44060 00 7	benzothiazolyl)		Х	Maine (Canada PBiT); WA		
41362-82-7	azo]phenyl]methylamino]-			Appen1	Dye Stabilizer for polyolefins,	
					elastomers; additive for	
	Benzenepropanoic acid, 3,5-bis(1,1-				synthetic and partially	×
	dimethylethyl)-4-hydroxy-, 1,1'-(thiodi-				synthetic lubricants for engine	^
41484-35-9	2,1-ethanediyl) ester	Liver		EPA - HC	oils.	
	, , , , ,				Antioxidant/corrosion	
					inhibitor/tarnish	
	Decanedioic acid, bis(1,2,2,6,6-		Х	Maine (Canada PBiT); WA	inhibitor/scavenger/antiscaling	
41556-26-7	pentamethyl-4-piperidinyl) ester			Appen1	agent, paints, plastics	
			x	Maine (OSPAR Chemicals of		
41604-19-7	1,1'-biphenyl, 4-bromo-2-fluoro-			Concern); WA Appen1	Chemical intermediate	
44000 04 0	benzene, 1,4-dichloro-2,5-		x	Maine (OSPAR Chemicals of		
41999-84-2	bis(dichloromethyl)-			Concern); WA Appen1	Chemical intermediate	
42074-68-0	benzene, 1-chloro-2- (chlorodiphenylmethyl)-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Resins	
42074-08-0	(chlorodiphenylmethyl)-			Maine (CA Prop 65; NTP 11th	Resilis	
42397-64-8	1,6-Dinitropyrene	Cancer		ROC); WA Appen1	Combustion by-product	
12337 01 0	1,0 Dilliti opyrene	Carreer		Maine (CA Prop 65; NTP 11th	Compasion by product	
42397-65-9	1,8-Dinitropyrene	Cancer		ROC); WA Appen1	Combustion by-product	
	[1,1'-Biphenyl]-4-ol, 3,4'-bis(1,1-			Maine (Canada PBiT); WA	, ,	
42479-88-9	dimethylethyl)-		Х	Appen1	Chemical intermediate	
	Nickel, bis[2,3-bis(hydroxyimino) -N-(2-		х	Maine (Canada PBiT); WA		
42739-61-7	methoxyphenyl)butanamidato]-			Appen1	Colorant	
	Acetamide, N-[2-[(2-bromo-4,6-					
	dinitrophenyl) azo]-4-methoxy-5-		х	Maine (Canada DB:T), MA		
42852-92-6	[(phenylmethyl)-2-propenylamino ]phenyl]-			Maine (Canada PBiT); WA Appen1	Dye	
42852-92-6	Oxyfluorfen		X	WA Appen1; Oregon P3 List	Pesticide	
0, 1 00 0			^	Maine (CA Prop 65); WA	. continue	
43121-43-3	Triadimefon	Development, Reproduction		Appen1	Pesticide	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Itamber	CHEMICAL INCIDE	Treater enapolities	Dioaccamalative (vi vb)	Maine (EU Endocrine Disruptor);		or 4 years,
43216-70-2	3-OH-o,p'-DDT	Endocrine system		WA Appen1	Pesticide breakdown product	
				Maine (CA Prop 65; EU		
				Endocrine Disruptor; OSPAR		
	2,4-oxazolidinedione, 3-(3,5-	Cancer, Development, Endocrine		Chemicals of Concern); WA		
50471-44-8	dichlorophenyl)-5-ethenyl-5-methyl-	System		Appen1	Pesticide	
	2,3,7,8-tetrabromodibenzo-pdioxin	<u> </u>				
	[Polybrominated dibenzodioxins and		x	Maine (EU Endocrine Disruptor;		
50585-41-6	furans]	Endocrine system		WA PBT List); WA Appen1	Dioxin	
	butanoyl chloride, 4-[2,4-bis(1,1-	,		Maine (OSPAR Chemicals of		
50772-29-7	dimethylpropyl)phenoxy]-		Х	Concern); WA Appen1	Chemical intermediate	
	benzaldehyde, 2-hydroxy-5-nonyl-,			Maine (OSPAR Chemicals of	Refining and processing of	
50849-47-3	oxime		Х	Concern); WA Appen1	metals	
				, .,		
				Maine (OSPAR Chemicals of		
			Х	Concern; OSPAR Chemicals for		Х
51000-52-3	neodecanoic acid, ethenyl ester			Priority Action); WA Appen1	Polymerization	
				, , , , , , ,		
			x	Maine (EPA Final PBT Rule for		
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran			TRI; WA PBT List); WA Appen1	Furan	
51218-45-2	Metolachlor	Development		WA Appen1; Minnesota HBV	Pesticide	
51235-04-2	Hexazinone	Body weight		IRIS; WA Appen1	Pesticide	
				Maine (CA Prop 65); WA		
51338-27-3	Diclofop methyl	Cancer, Development		Appen1	Pesticide	
51630-58-1	Pydrin	Nervous system		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
	2,2,5-endo,6-exo,8,9,10-			Maine (OSPAR Chemicals of		
51775-36-1	heptachloronorbornane		Х	Concern); WA Appen1		
52315-07-8	Cypermethrin	Gastrointestinal system		IRIS; WA Appen1	Pesticide, pharmaceutical	
	1,3,5-triazine-2,4,6(1H,3H,5H)-trione,		х	Maine (OSPAR Chemicals of		
52434-90-9	1,3,5-tris(2,3-dibromopropyl)-			Concern); WA Appen1	Flame retardant	
	9,10-Anthracenedione, 2,2'-(1,3,4-			Maine (Canada PBiT); WA		
52591-25-0	oxadiazole-2,5-diyl)bis[1-amino-		Х	Appen1		
52645-53-1	Permethrin	Liver		IRIS; WA Appen1	Pesticide	
				Maine (EPA Final PBT Rule for		
			х	TRI; WA PBT List); WA Appen1;		
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl			Oregon P3 List	PCB	
	9,10-Anthracenedione, 2,2'-[1,4-					
	phenylenebis(1, 3,4-oxadiazole-5,2-		X	Maine (Canada PBiT); WA		
52671-38-2	diyl)]bis[1-amino-			Appen1		



CAC Marshau	Charriella	Hadda and a state	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very		Harris and Marchael	HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Acetamide, N-[2-[(2-bromo-4,6-dinitrophenyl) azo]-5-		x	Maine (Canada PBiT); WA		
52697-38-8	(diethylamino)phenyl]-			Appen1	Dye	
52740-90-6	2-anthracenecarboxamide, 1-amino-N-(3-bromo-9,10-dihydro-9,10-dioxo-2-anthracenyl)-9,10-dihydro-9,10-dioxo-		x	Maine (OSPAR Chemicals of Concern); WA Appen1	Pigment	
52918-63-5	Deltamethrin		х	Maine (EU Endocrine Disruptor); WA Appen1; Oregon P3 List	Pesticide	
	Phosphorous acid, (1- methylethylidene)di-4,1-phenylene tetrakis[(3-ethyl-3-oxetanyl)methyl]		х	Maine (Canada PBiT); WA		
53184-75-1	ester			Appen1		
				Maine (CA Prop 65); WA		
53404-19-6	Bromacil lithium salt	Development, Reproduction		Appen1	Pesticide	
				Maine (EU Endocrine Disruptor);		
53469-21-9	PCB Aroclor 1242	Endocrine system		WA Appen1	PCB	
				EU Category 1 Endocrine		
53555-66-1	3,4',5-Trichlorobiphenyl	Endocrine system		disruptor	PCB congener	
			x	Maine (OSPAR Chemicals of		
53742-07-7	1,1'-biphenyl, nonachloro-		· ·	Concern); WA Appen1	PCB	
				Maine (EU Endocrine Disruptor);		
53905-33-2	4-Hydroxy-2,2',5'-trichlorobiphenyl	Endocrine system		WA Appen1	PCB	
				Maine (CA Prop 65); WA		
53973-98-1	Polygeenan	Cancer		Appen1	Food additive	
54079-53-7	Propanedinitrile, [[4-[[2-(4-cyclohexylphenoxy) ethyl]ethylamino]-2-methylphenyl]methylene]- (Disperse Yellow 201)		×	Maine (Canada PBiT); WA Appen1	Dye	
54079-60-6	Propanedinitrile, [[4-[[2-(2-cyclohexylphenoxy) ethyl]ethylamino]-2-methylphenyl]methylene]-		х	Maine (Canada PBiT); WA Appen1		
	9,10-Anthracenedione, 1-amino-4-		x	Maine (Canada PBiT); WA		
54243-60-6	hydroxy-2-(4-methoxyphenoxy)-		^	Appen1		
54991-93-4	Clophen A30	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1	РСВ	
55252-53-4	Acetamide, N-[2-[(2-cyano-6-iodo-4- nitrophenyl) azo]-5- (diethylamino)phenyl]-		х	Maine (Canada PBiT); WA Appen1		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Propanenitrile, 3-[[4-[(2,6-dibromo-4-		x			
	nitrophenyl) azo]phenyl]ethylamino]-		*	Maine (Canada PBiT); WA		
55281-26-0	(Disperse Orange 61)			Appen1	Dye	
55285-14-8	Carbosulfan	Body weight		IRIS; WA Appen1	Pesticide (EPA reg. cancelled)	
55525-54-7	3,3'-(ureylenedimethylene)bis(3,5,5-trimethylcyclohexyl) diisocyanate		x	Maine (OSPAR Chemicals of Concern; OSPAR Chemicals for Priority Action); WA Appen1		
			x	Maine (EPA Final PBT Rule for		
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran			TRI; WA PBT List); WA Appen1	Furan	
				Maine (EU Endocrine Disruptor);		
55702-46-0	PCB 21 (2,3,4-Trichlorobiphenyl)	Endocrine system		WA Appen1	PCB	
55738-54-0	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	Cancer	x	Maine (CA Prop 65); WA Appen1		
	Benzenediazonium, 2-methoxy-4-nitro-,					
	salt with naphthalenedisulfonic acid		x	Maine (Canada PBiT); WA		
56307-70-1	(2:1)			Appen1	Dye	
56425-91-3	Flurprimidol	Liver, Reproduction		IRIS; WA Appen1	Pesticide	
56532-53-7	Acetamide, N-[2-[(2,6-dicyano-4- nitrophenyl) azo]-5- (dipropylamino)phenyl]-		х	Maine (Canada PBiT); WA Appen1		
	PCB 104 (2,2',4,6,6'-					
56558-16-8	Pentachlorobiphenyl)	Endocrine system		Maine (EU Endocrine Disruptor)	A.A. I. I'V. C.	
				Maine (EU Endocrine Disruptor);		
56614-97-2	3,9-Dihydroxybenz(a)anthracene	Endocrine system		WA Appen1	benz(a)anthracene	
57018-52-7	Drandana sheal mana t butid athar	Concer		Maine (CA Prop 65); WA	Solvent	
5/018-52-7	Propylene glycol mono-t-butyl ether	Cancer		Appen1	Solvent	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	Endocrine system	х	Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Furan	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran		x	Maine (EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Furan	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran		х	Maine (EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Furan	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl	Endocrine system	х	Maine (EU Endocrine Disruptor; EPA Final PBT Rule for TRI); WA Appen1; Oregon P3 List	РСВ	
	Dimethyltin bis[2-ethylhexyl thioglycolate] [DMT(EHTG)]	Skin		OECD - SIDS/SIAR	Production of films, sheets, injection moldings	х
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Cancer	x	Maine (IRIS; EPA Final PBT Rule for TRI); WA Appen1 Maine (CA Prop 65; NTP 11th	Dioxin Particulates in emissions from	
57835-92-4	4-Nitropyrene	Cancer		ROC); WA Appen1	combustion	
57837-19-1	Metalaxyl	Blood chemistry, Organ weights		IRIS; WA Appen1	Pesticide	
58019-27-5	Anthra[9,1,2-cde]benzo[rst]pentaphene-5,10-dione, diamino-		х	Maine (Canada PBiT); WA Appen1		
58138-08-2	oxirane, 2-(3,5-dichlorophenyl)-2-(2,2,2-trichloroethyl)-		x	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
58161-93-6	Benzoic acid, 4-[1-[[(2,4-dichlorophenyl) amino]carbonyl]-3,3-dimethyl-2-oxobutoxy]-		х	Maine (Canada PBiT); WA Appen1	Photographic / photocopier	
59447-55-1	2-propenoic acid, (pentabromophenyl)methyl ester		х	Maine (OSPAR Chemicals of Concern; OSPAR Chemicals for Priority Action); WA Appen1		
59487-23-9	2-Naphthalenecarboxamide, 4-[[5-[[[4- (aminocarbonyl) phenyl]amino]carbonyl]-2- methoxyphenyl]azo]-N-(5-chloro-2,4- dimethoxyphenyl)-3-hydroxy- (Pigment Red 187)		х	Maine (Canada PBiT); WA Appen1	Pigment	
59536-65-1	Hexabromobiphenyl		x	Maine (WA PBT List); WA Appen1	Flame retardant	
59583-77-6	Carbamic acid, (3,4-dichlorophenyl)-, 2- [butyl[4-(2,2-dicyanoethenyl) -3- methylphenyl]amino]ethyl ester		x	Maine (Canada PBiT); WA Appen1		
59653-74-6	beta-Triglycidyl isocyanurate (β-TGIC)	Mutagenic (Genotoxic)		REACH Substances of Very High Concern	curing agent in polyester powder paints	
59669-26-0	Thiodicarb	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
59709-10-3	Pyridinium, 1-[2-[[4-[(2-chloro-4-nitrophenyl) azo]phenyl]ethylamino]ethyl]-, acetate		х	Maine (Canada PBiT); WA Appen1		
59756-60-4	Fluridone	Body weight, Eyes, Organ weight, Reproduction		IRIS; WA Appen1	Pesticide	
60153-49-3	3-(N-Nitrosomethylamino) propionitrile	Cancer		Maine (CA Prop 65); WA Appen1		
60168-88-9	Fenarimol	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1	Pesticide	
60207-90-1	Propiconazole	Eyes, Gastrointestinal system		IRIS; WA Appen1	Pesticide, wood preservation	
60348-60-9	PBDE-099 [2,2',4,4',5- Pentabromodiphenyl ether]		х	WA Appen1; Oregon P3 List	Flame retardant	
60391-92-6	N-Carboxymethyl-N-nitrosourea	Cancer		Maine (CA Prop 65); WA Appen1	Reaction of glycocyamine	
60568-05-0	Furmecyclox	Cancer		Maine (CA Prop 65; IRIS); WA Appen1	Pesticide (not EPA registered)	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran		х	Maine (EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Furan	
61788-33-8	terphenyl, chlorinated		x	Maine (OSPAR Chemicals of Concern); WA Appen1	In pesticides	
61788-76-9	Alkanes, chloro		х	Maine (Canada PBiT); WA Appen1	Lubricants and coolants in metals	х
62450-06-0	Trp-P-1 (Tryptophan-P-1)	Cancer		Maine (CA Prop 65); WA Appen1	Charred fish	
62450-07-1	Trp-P-2 (Tryptophan-P-2)	Cancer		Maine (CA Prop 65); WA Appen1	Charred fish	
62476-59-9	Acifluorfen sodium	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide	
62625-32-5	Phenol, 4,4'-(3H-1,2-benzoxathiol- 3-ylidene)bis[2,6-dibromo-3-methyl-, S,S-dioxide, monosodium salt		x	Maine (Canada PBiT)l WA Appen1	Dye	
63133-84-6	1(2H)-Quinolineethanol, 6-[(2-chloro- 4,6-dinitrophenyl) azo]-3,4-dihydro- 2,2,4,7-tetramethyl-		х	Maine (Canada PBiT); WA Appen1		
63134-15-6	Acetamide, N-[5-(dipropylamino)-2-[[5-(ethylthio)-1,3,4-thiadiazol-2-yl]azo]phenyl]-		х	Maine (Canada PBiT); WA Appen1	Colorant	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
62440 20 0	paraffin waxes and hydrocarbon waxes,		x	Maine (OSPAR Chemicals of Concern; Canada PBiT); WA	Standard de d	х
63449-39-8	chlorinated			Appen1	Flame retardant	
63467-15-2	1(2H)-Quinolinepropanamide, 6-(2,2-dicyanoethenyl)-3, 4-dihydro-2,2,4,7-tetramethyl-N-phenyl-		х	Maine (Canada PBiT); WA Appen1		
63467-19-6	Propanedinitrile, [[1,2,3,4-tetrahydro-2,2, 4-trimethyl-1-[2-[[(phenylamino)carbonyl]oxy]ethyl]-6-quinolinyl]methylene]-		х	Maine (Canada PBiT); WA Appen1		
64086-95-9	9,10-Anthracenedione, 1-amino-2-bromo-4-[[4-[(1- methylethyl)amino]-6-phenyl-1,3,5-triazin-2-yl]amino]-		х	Maine (Canada PBiT); WA Appen1	Dye	
64086-96-0	9,10-Anthracenedione, 2-acetyl-1- amino-4-[[4-[( 1-methylethyl)amino]-6- phenyl-1,3,5-triazin-2-yl]amino ]-		х	Maine (Canada PBiT); WA Appen1		
	4-(N-Nitrosomethylamino)-1-(3-			Maine (CA Prop 65; IARC; NTP		
64091-91-4	pyridyl)1-butanone	Cancer		11th ROC); WA Appen1	Tobacco smoke	
64111-81-5	Triclosan		х	Maine (Canada PBiT); WA Appen1	Antimicrobial	
64131-85-7	phosphorothioic acid, O,O,O-tris(4- nitrophenyl) ester		х	Maine (OSPAR Chemicals of Concern); WA Appen1		
64325-78-6	Adenosine, N-benzoyl-5'-O-[bis(4- methoxyphenyl) phenylmethyl]-2'- deoxy-		х	Maine (Canada PBiT); WA Appen1		
64338-16-5	7-Oxa-3,20-diazadispiro[5.1.11.2] heneicosan-21-one, 2,2,4,4-tetramethyl-		х	Maine (Canada PBiT); WA Appen1	Paint/coating additives, photosensitive, plastics	
64365-17-9	Resin acids and Rosin acids, hydrogenated, esters with pentaerythritol		х	Maine (Canada PBiT); WA Appen1	Adhesives	x
64381-97-1	1,4-benzenediamine, N,N,N'-tris(1- methylpropyl)-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Gasoline additive	
64741-42-0	Naphtha (petroleum), full-range straight- run		х	Maine (Canada PBiT); WA Appen1		х
64741-47-5	Natural gas condensates (petroleum)		х	Maine (Canada PBiT); WA Appen1		х
64741-50-0	Distillates (petroleum), light paraffinic, Unrefined or mildly refined baseoil	Cancer		Maine (EU Carcinogen)		х



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Distillates (petroleum), heavy paraffinic,					
64741-51-1	Unrefined or mildly refined baseoil	Cancer		Maine (EU Carcinogen)		Х
04741 31 1	Officialized of finitely fermical baseon	Carreer		Waine (EO carellogen)		
	Distillates (petroleum), light naphthenic,					х
64741-52-2	Unrefined or mildly refined baseoil	Cancer		Maine (EU Carcinogen)		
	Distillates (petroleum), heavy					
	naphthenic, Unrefined or mildly refined					х
64741-53-3	baseoil	Cancer		Maine (EU Carcinogen)		
			.,	Maine (Canada PBiT); WA		,
64741-58-8	Gas oils (petroleum), light vacuum		Х	Appen1		х
	Distillates (petroleum), heavy catalytic		х	Maine (Canada PBiT); WA		x
64741-61-3	cracked		^	Appen1		^
	Residues (petroleum), catalytic reformer		X	Maine (Canada PBiT); WA		x
64741-67-9	fractionator		^	Appen1		^
	Naphtha (petroleum), heavy		х	Maine (Canada PBiT); WA		x
64741-78-2	hydrocracked		^	Appen1		^
	Distillates (petroleum), heavy thermal		х	Maine (Canada PBiT); WA		х
64741-81-7	cracked			Appen1		
	Naphtha (petroleum), heavy thermal		×	Maine (Canada PBiT); WA		х
64741-83-9	cracked			Appen1		
C4741 0F 1	Deffinates (naturals and naturals		x	Maine (Canada PBiT); WA		x
64741-85-1	Raffinates (petroleum), sorption process			Appen1		
64741-87-3	Naphtha (petroleum), sweetened		x	Maine (Canada PBiT); WA Appen1		х
04/41-8/-3	Naphtha (petroleum), sweetened			Аррент		
	Distillates (petroleum), acid-treated					
	heavy naphthenic, Unrefined or mildly					
64742-18-3	refined baseoil	Cancer		Maine (EU Carcinogen)		
	Distillates (petroleum), acid-treated					
	light naphthenic, Unrefined or mildly					
64742-19-4	refined baseoil	Cancer		Maine (EU Carcinogen)		
	Distillates (petroleum), acid-treated					
64742 20 7	heavy paraffinic, Unrefined or mildly	Concor		Maina (Ell Carsina and)		
64742-20-7	refined baseoil Distillates (petroleum), acid-treated	Cancer		Maine (EU Carcinogen)		
64742-21-8	light paraffinic, Unrefined or mildly refined baseoil	Cancar		Maine (EU Carcinogen)		
04/42-21-8	Naphtha (petroleum), chemically	Cancer		Maine (Canada PBiT); WA		
64742-22-9	neutralized heavy		X	Appen1		x
0-7-42-22-3	neutranzeu neavy			Appenii		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
			· ·			
	Distillates (petroleum), chemically					
	neutralized heavy paraffinic, Unrefined					
64742-27-4	or mildly refined baseoil	Cancer		Maine (EU Carcinogen)		
C4742 20 F	Distillates (petroleum), chemically neutralized light paraffinic, Unrefined or			Maine (FII Carringge)		
64742-28-5	mildly refined baseoil	Cancer		Maine (EU Carcinogen)		
64742-34-3	Distillates (petroleum), chemically neutralized heavy naphthenic, Unrefined or mildly refined baseoil	Cancer		Maine (EU Carcinogen)		
04/42-34-3	Officialized of fillidity refilled baseon	Cancer		Walle (EO Carcillogell)		
	Distillates (petroleum), chemically neutralized light naphthenic, Unrefined					
64742-35-4	or mildly refined baseoil	Cancer		Maine (EU Carcinogen)		
	Naphtha (petroleum), hydrotreated		x	Maine (Canada PBiT); WA		x
64742-48-9	heavy			Appen1		
	Gas oils (petroleum), hydrotreated		x	Maine (Canada PBiT); WA		x
64742-59-2	vacuum			Appen1		
64749.66.4			x	Maine (Canada PBiT); WA		
64742-66-1	Naphtha (petroleum), catalytic dewaxed			Appen1		
64742.02.4	Naphtha (petroleum),		x	Maine (Canada PBiT); WA		x
64742-82-1	hydrodesulfurized heavy			Appen1		
64742.07.6	Gas oils (petroleum), hydrodesulfurized		x	Maine (Canada PBiT); WA		x
64742-87-6	light vacuum			Appen1		
64742 00 1	Posiduos (notroloum) stoom graduad		x	Maine (Canada PBiT); WA		х
64742-90-1	Residues (petroleum), steam-cracked			Appen1 Maine (CA Prop 65); WA		
64002 72 2	Chloroulfuron	Davidonment Reproduction			Posticido	
64902-72-3	Chlorsulfuron  Phosphonic acid, [[3,5-bis(1,1-	Development, Reproduction		Appen1	Pesticide	
	1					
	dimethylethyl) -4-		x	Maine (Canada DDiT), MA		
65140-91-2	hydroxyphenyl]methyl]-, monoethyl ester, calcium salt (2:1)			Maine (Canada PBiT); WA		
03140-91-2	ester, Calcium Sait (2:1)			Appen1 Maine (EU Endocrine Disruptor);		
65148-72-3	4-MeO-o,p'-DDT	Endocrine system		WA Appen1	DDT metabolite	
03140-72-3	ו טטי ק,ט־טפואי	Lindon ille system		Maine (EU Endocrine Disruptor);	ווכנמטטוונפ וווכנמטטוונפ	
65149 72 4	5 OH o n' DDT	Endocrino system		WA Appen1	DDT metabolite	
65148-73-4	5-OH-o,p'-DDT	Endocrine system			וופנמטטוונפ	
65148-74-5	5 MaO a n' DDT	Endocrino system		Maine (EU Endocrine Disruptor); WA Appen1	DDT metabolite	
03140-74-3	5-MeO-o,p'-DDT	Endocrine system		Maine (EU Endocrine Disruptor);	וופנמטטוונפ ווופנמטטוונפ	
65148-75-6	5-MeO-o,p'-DDD	Endocrine system		WA Appen1	DDT metabolite	
03140-73-0	3 MCO-0,p -000	Endocrine system		My Abbent	DD THE CODOLICE	



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
				Maine (EU Endocrine Disruptor);		
65148-80-3	3-MeO-o,p'-DDE	Endocrine system		WA Appen1	DDT metabolite	
				Maine (EU Endocrine Disruptor);		
65148-81-4	4-MeO-o,p'-DDE	Endocrine system		WA Appen1	DDT metabolite	
				Maine (EU Endocrine Disruptor);		
65148-82-5	5-MeO-o,p'-DDE	Endocrine system		WA Appen1	DDT metabolite	
	o,p'-DDA-glycinat = N-[(2-					
	chlorophenyl)(4-			Maine (EU Endocrine Disruptor);		
65148-83-6	chlorophenyl)acettyl]glycin	Endocrine system		WA Appen1		
					Pesticide, veterinary	
65195-55-3	Avermectin B1	Development		IRIS; WA Appen1	pharmaceutical	
	months Provide Actif					
	methylium, tris[4-					
	(dimethylamino)phenyl]-, salt with 3-[[4-		Х	Maine (OCDAD Chemicale of		
65294-17-9	(phenylamino)phenyl]azo]benzenesulfo			Maine (OSPAR Chemicals of Concern); WA Appen1	Ink	
05294-17-9	nic acid (1:1)			Maine (EPA Final PBT Rule for	IIIK	
				TRI); WA Appen1; Oregon P3		
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl		Х	List	PCB	
03310-44-3	2,3,4,4,3-Fentachioropiphenyi			List	FCB	
	benzene, 1-[2-(2-chloroethoxy)ethoxy]-		X	Maine (OSPAR Chemicals of		
65925-28-2	4-(1,1,3,3-tetramethylbutyl)-		^	Concern); WA Appen1		
00010 10 1	(2)2)5/5 (60:4)116(1)1/154(1)			Maine (EU Carcinogen; NTP		
65996-89-6	Coal tar, Tar, coal, high-temp.	Cancer		11th ROC)		х
65996-90-9	Coal oil, Tar, coal, low-temp.	Cancer		Maine (EU Carcinogen)		
				, , ,		
				Maine (IARC; NTP 11th ROC; EU		
			Х	PBT List) REACH Substances of	Coal tar, shampoo,	х
65996-93-2	Pitch, coal tar, hightemp.	Cancer		Very High Concern; WA Appen1	pharmaceutical	
				Maine (Canada PBiT); WA	Colorant, adhesive, solvent,	.,
65997-06-0	Rosin, hydrogenated		Х	Appen1	plastics	х
	Resin acids and Rosin acids,		v	Maine (Canada PBiT); WA		
65997-13-9	hydrogenated, esters with glycerol		Х	Appen1	Adhesive, paint, sealant	х
66215-27-8	Cyromazine	Blood		IRIS; WA Appen1	Pesticide	
66230-04-4	Esfenvalerate		X	Oregon P3 List	Pesticide, pyrethroid	
66332-96-5	Flutolanil	Development		IRIS; WA Appen1	Pesticide	
				Maine (CA Prop 65); WA		
66441-23-4	Fenoxaprop ethyl	Development		Appen1	Pesticide (EPA reg. cancelled)	
				Maine (CA Prop 65; IARC; NTP		
66733-21-9	Erionite (cakna (Al2Si7O18)2.14H2O))	Cancer		11th ROC); WA Appen1		
66841-25-6	Tralomethrin	Body weight		IRIS; WA Appen1	Pesticide	



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
67124-09-8	2-propanol, 1-(tert-dodecylthio)-		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Alcohol	
67219-55-0	Cytidine, N-benzoyl-5'-O-[bis(4- methoxyphenyl) phenylmethyl]-2'- deoxy-		x	Maine (Canada PBiT); WA Appen1	Nucleoside	
67485-29-4	hydramethylnon	Development, Reproduction	х	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran		х	Maine (EPA Final PBT Rule for TRI; WA PBT List); WA Appen1	Furan	
67651-34-7	4-Hydroxy-2',3',4',5'- tetrachlorobiphenyl	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1	PCB	
67651-37-0	3-Hydroxy-2',3',4',5'- tetrachlorobiphenyl	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen1	РСВ	
67701-37-5	Stannane, [(2-octyl-1,4-dioxo-1,4-butanediyl) bis(oxy)]bis[tributyl-		х	Maine (Canada PBiT); WA Appen1		
67733-57-7	2,3,7,8-tetrabromodibenzofuran [Polybrominated dibenzodioxins and furans]		х	Maine (WA PBT List); WA Appen1	Furan	
67747-09-5	Prochloraz		х	WA Appen1; Oregon P3 List	Pesticide (not EPA registered)	
67940-02-7	1-Heptanesulfonamide, N-[3- (dimethylamino)propyl] - 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro- , monohydrochloride		х	Maine (Canada PBiT); WA Appen1	PFC	
67969-69-1	1-octanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-N-[2- (phosphonooxy)ethyl]-, diammonium salt		х	Maine (OSPAR Chemicals of Concern; Canada PBiT); WA Appen1	PFC	
68006-83-7	Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	Cancer		Maine (CA Prop 65); WA Appen1	Formed during cooking	
68015-60-1	benzenesulfonic acid, 2-amino-, (1- methylethylidene)di-4,1-phenylene ester		х	Maine (OSPAR Chemicals of Concern); WA Appen1	Paints, lacquers	
68083-48-7	2-butanone, O-[[[[1,3,3-trimethyl-5- [[[[(1- methylpropylidene)amino]oxy]carbonyl] amino]cyclohexyl]methyl]amino]carbon yl]oxime		х	Maine (OSPAR Chemicals of Concern); WA Appen1		



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
68085-85-8	cyclopropanecarboxylic acid, 3-(2-chloro 3,3,3-trifluoro-1-propenyl)-2,2-dimethyl , cyano(3-phenoxyphenyl)methyl ester		x	Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (not EPA registered)	,,
68131-75-9	Gases (petroleum), C3-4; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C3 through C4, predominantly of propane and propylene, and boiling in the range of approximately -51°C to -1°C (-60°F to 30°F.)]	Cancer		Maine (EU Carcinogen)		x
68214-66-4	Carbamic acid, [2-[(2-chloro-4- nitrophenyl) azo]-5- (diethylamino)phenyl]-, 2-ethoxyethyl ester		х	Maine (Canada PBiT); WA Appen1		
68227-79-2	Benzenesulfonic acid, 2-[[9,10-dihydro-4-[(4-methylphenyl) amino]-9,10-dioxo-1-anthracenyl]amino] -5-methyl-, monoammonium salt		х	Maine (Canada PBiT); WA Appen1		
68259-14-3	1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-methyl-		х	Maine (Canada PBiT); WA Appen1	PFC	
68259-15-4	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N- methyl-		х	Maine (Canada PBiT); WA Appen1	PFC	
68298-13-5	1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N- methyl-		х	Maine (Canada PBiT); WA Appen1	PFC	



Persistent, Bioaccumulative, Toxic (PBT) or very	
Toxic (PBT) of very	
Persistent, very	HPV (2006 and 3
CAS Number   Chemical Name   Health endpoint(s)   Bioaccumulative (vPvB)   Source(s)   Use example(s	s) or class of 4 years) <sup>1,2</sup>
Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha	
fractionation absorber; Petroleum gas;	
[The complex combination of	
hydrocarbons from the distillation of	
the products from catalytic cracked	
distillates and catalytic cracked naphtha.	
It consists predominantly of	
hydrocarbons having carbon numbers in	
68307-98-2 the range of C1 through C4.] Cancer Maine (EU Carcinogen)	
Tail gas (petroleum), catalytic polymn.	
naphtha fractionation stabilizer;	
Petroleum gas; [A complex combination	
of hydrocarbons from the fractionation stabilization products from	
polymerization of naphtha. It consists	
predominantly of hydrocarbons having	
carbon numbers in the range of C1	
68307-99-3 through C4.] Cancer Maine (EU Carcinogen)	
Tail gas (petroleum), catalytic reformed	
naphtha fractionation stabilizer,	
hydrogen sulfide-free; Petroleum gas;	
[A complex combination of	
hydrocarbons obtained from	
fractionation stabilization of catalytic	
reformed naphtha and from which	
hydrogen sulfide has been removed by	
amine treatment. It consists predominantly of hydrocarbons having	
carbon numbers predominantly in the	
68308-00-9 range of C1 through C4.] Cancer Maine (EU Carcinogen)	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), cracked distillate hydrotreater stripper; Petroleum gas; [A complex combination of hydrocarbons obtained by treating thermal cracked distillates with hydrogen in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C1					
68308-01-0	through C6.]	Cancer		Maine (EU Carcinogen)		
68308-03-2	Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of products from the catalytic cracking of gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
68308-04-3	Tail gas (petroleum), gas recovery plant; Petroleum gas; [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]			Maine (EU Carcinogen)		х
68308-05-4	Tail gas (petroleum), gas recovery plant deethanizer; Petroleum gas; [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		x



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), hydrodesulfurized distillate and hydrodesulfurized naphtha fractionator, acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of hydrodesulfurized naphtha and distillate hydrocarbon streams and treated to remove acidic					х
	impurities. It consists predominantly of					
	hydrocarbons having carbon numbers predominantly in the range of C1					
68308-06-5	through C5.]	Cancer		Maine (EU Carcinogen)		
68308-07-6	Tail gas (petroleum), hydrodesulfurized vacuum gas oil stripper, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from stripping stabilization of catalytic hydrodesulfurized vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	Cancer		Maine (EU Carcinogen)		
	Tail gas (petroleum), isomerized naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization products from isomerized naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the	Cancer		Maine (EU Carcinogen)		x



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), light straight-run					
	naphtha stabilizer, hydrogen sulfide-					
	free; Petroleum gas; [A complex					
	combination of hydrocarbons obtained from fractionation stabilization of light					
	straight run naphtha and from which					
	hydrogen sulfide has been removed by					
	amine treatment. It consists					
	predominantly of hydrocarbons having					
	carbon numbers predominantly in the					
68308-09-8	range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
	Tail gas (petroleum), straight-run					
	distillate hydrodesulfurizer, hydrogen					
	sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained					
	from catalytic hydrodesulfurization of					
	straight run distillates and from which					
	hydrogen sulfide has been removed by					
	amine treatment. It consists					
	predominantly of hydrocarbons having					
	carbon numbers predominantly in the					
68308-10-1	range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		
	L , , ,					
	Tail gas (petroleum), propane-					
	propylene alkylation feed prep					
	deethanizer; Petroleum gas; [A complex combination of hydrocarbons obtained					×
	from the distillation of the reaction					X
	products of propane with propylene. It					
	consists of hydrocarbons having carbon					
	numbers predominantly in the range of					
68308-11-2	C1 through C4.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chamical Name	Health and naint(s)	Persistent, very	Saurania)	Han avamula/a\ av alasa	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years)
	Tail gas (petroleum), vacuum gas oil					
	hydrodesulfurizer, hydrogen sulfide-					
	free; Petroleum gas; [A complex					
	combination of hydrocarbons obtained					
	from catalytic hydrodesulfurization of					x
	vacuum gas oil and from which					
	hydrogen sulfide has been removed by					
	amine treatment. It consists					
	predominantly of hydrocarbons having carbon numbers predominantly in the					
68308-12-3	range of C1 through C6.]	Cancer		Maine (EU Carcinogen)		
00300 12 3	runge of of through co.j	Carreer		Maine (CA Prop 65; IARC); WA		
68308-34-9	Shale-oils	Cancer		Appen1	Oil	
	Amines, tallow alkyl, ethoxylated,			Maine (Canada PBiT); WA		
68308-48-5	phosphates		Х	Appen1	Surfactant in pesticide	
			х	Maine (Canada PBiT); WA		x
68333-22-2	Residues (petroleum), atmospheric		^	Appen1	Petroleum	^
68359-37-5	Baythroid (Cyfluthrin)	Body weight, Kidney		IRIS; WA Appen1	Pesticide	
60204 00 2	Alcoholo CO 44 anno andino		x	Maine (Canada PBiT); WA	DEC.	
68391-08-2	Alcohols, C8-14, γ-ω-perfluoro			Appen1	PFC	
	Gases (petroleum), catalytic cracked					
	overheads; Petroleum gas; [A complex					
	combination of hydrocarbons produced					
	by the distillation of products from the					
	catalytic cracking process. It consists of					х
	hydrocarbons having carbon numbers					
	predominantly in the range of C3					
	through C5 and boiling in the range of					
	approximately -48°C to 32°C (-54°F to	Canada		Maina /FII Cardinana		
68409-99-4	90°F).]	Cancer		Maine (EU Carcinogen) Maine (Canada PBiT); WA		
68410-00-4	Distillates (petroleum), crude oil		X	Appen1		x
	2-Propanone, reaction products with			Maine (Canada PBiT); WA		
68412-48-6	diphenylamine		х	Appen1	Antioxidant	
	Phosphonic acid, perfluoro-C6-12-alkyl			Maine (Canada PBiT); WA		
68412-68-0	derivs.		Х	Appen1	PFC	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
					Reactant for organotin PVC	
	Fatty acids, tall-oil, 2-mercaptoethyl				stabilizers, approved for	x
68440-24-4	esters (2-MET)	Development		OECD - SIDS/SIAR	indirect food contact	
			x	Maine (Canada PBiT); WA		
68443-10-7	Amines, C18-22-tert-alkyl, ethoxylated		^	Appen1		
68475-57-0	Alkanes, C1-2, Petroleum gas	Cancer		Maine (EU Carcinogen)		
68475-58-1	Alkanes, C2-3, Petroleum gas	Cancer		Maine (EU Carcinogen)		х
68475-59-2	Alkanes, C3-4, petroleum gas	Cancer		Maine (EU Carcinogen)		x
68475-60-5	Alkanes, C4-5, Petroleum gas	Cancer		Maine (EU Carcinogen)		Х
68476-26-6	Fuel gases, Petroleum gas, [A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]	Cancer		Maine (EU Carcinogen)		х
68476-29-9	Fuel gases, crude oil of distillates; Petroleum gas; [A complex combination of light gases produced by distillation of crude oil and by catalytic reforming of naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately -217°C to -12°C (-423°F to 10°F).]	Cancer		Maine (EU Carcinogen)		х
68476-31-3	Fuel oil, no. 4		х	Maine (Canada PBiT); WA Appen1		х
68476-40-4	Hydrocarbons, C3-4, Petroleum gas	Cancer		Maine (EU Carcinogen)		х
68476-42-6	Hydrocarbons, C4-5, Petroleum gas	Cancer		Maine (EU Carcinogen)		x
				Maine (Canada PBiT); WA		
68476-44-8	Hydrocarbons, C>3		Х	Appen1		х
68476-46-0	Hydrocarbons, C3-11, catalytic cracker distillates		х	Maine (Canada PBiT); WA Appen1		х
	Hydrocarbons, C2-4, C3-rich; Petroleum					
68476-49-3	gas	Cancer		Maine (EU Carcinogen)		х
68476-77-7	Lubricating oils, refined used		х	Maine (Canada PBiT); WA Appen1		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68476-85-7	Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).]	Cancer		Maine (EU Carcinogen)		х
68476-86-8	Petroleum gases, liquefied, sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately - 40 °C to 80 °C (-40 °F to 176 °F).]	Cancer		Maine (EU Carcinogen)		x
68477-33-8	Gases (petroleum), C3-4, isobutane- rich; Petroleum gas; [A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C3 through C6, predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C3 through C4, predominantly isobutane.]			Maine (EU Carcinogen)		x



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Distillates (petroleum), C3-6, piperylene-					
	rich; Petroleum gas; [A complex					
	combination of hydrocarbons from the					
	distillation of saturated and unsaturated					
	aliphatic hydrocarbons usually ranging					x
	in the carbon numbers C3 through C6. It					
	consists of saturated and unsaturated					
	hydrocarbons having carbon numbers in					
	the range of C3 through C6,					
68477-35-0	predominantly piperylenes.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), amine system feed;					
	Refinery gas; [The feed gas to the amine					
	system for removal of hydrogen sulfide.					
	It consists of hydrogen. Carbon					
	monoxide, carbon dioxide, hydrogen					х
	sulfide and aliphatic hydrocarbons					
	having carbon numbers predominantly					
	in the range of C1 through C5 may also					
68477-65-6	be present.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), benzene unit					
	hydrodesulfurizer off; Refinery gas; [Off					
	gases produced by the benzene unit. It					
	consists primarily of hydrogen. Carbon					
	monoxide and hydrocarbons having					
	carbon numbers predominantly in the					
	range of C1 through C6, including					
68477-66-7	benzene, may also be present.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), benzene unit					
	recycle, hydrogen-rich; Refinery gas; [A					
	complex combination of hydrocarbons					
	obtained by recycling the gases of the					
	benzene unit. It consists primarily of					
	hydrogen with various small amounts of					
	carbon monoxide and hydrocarbons					
	having carbon numbers in the range of					
68477-67-8	C1 through C6.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Casa (a studio as) bland sil budasas					
	Gases (petroleum), blend oil, hydrogen-					
	nitrogen-rich; Refinery gas; [A complex					
	combination of hydrocarbons obtained					
	by distillation of a blend oil. It consists					
	primarily of hydrogen and nitrogen with various small amounts of carbon					
	monoxide, carbon dioxide, and aliphatic					
	hydrocarbons having carbon numbers					
	_					
68477-68-9	predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
08477-08-3	linough c3.j	Caricer		Iviairie (Lo Carcinogen)		
	Gases (petroleum), butane splitter					
	overheads; Petroleum gas; [A complex					
	combination of hydrocarbons obtained					
	from the distillation of the butane					x
	stream. It consists of aliphatic					^
	hydrocarbons having carbon numbers					
	predominantly in the range of C3					
68477-69-0	through C4.]	Cancer		Maine (EU Carcinogen)		
				, g		
	Gases (petroleum), C2-3; Petroleum					
	gas; [A complex combination of					
	hydrocarbons produced by the					
	distillation of products from a catalytic					х
	fractionation process. It contains					
	predominantly ethane, ethylene,					
68477-70-3	propane, and propylene.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), catalytic-cracked gas					
	oil depropanizer bottoms, C4-rich acid-					
	free; Petroleum gas; [A complex					
	combination of hydrocarbons obtained					
	from fractionation of catalytic cracked					х
	gas oil hydrocarbon stream and treated					
	to remove hydrogen sulfide and other					
	acidic components. It consists of					
	hydrocarbons having carbon numbers in					
	the range of C3 through C5,					
68477-71-4	predominantly C4.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
CAC Number	Character Manager	Hardin and activity	Persistent, very	Commetal	Harana dalah adalah	HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gases (petroleum), catalytic-cracked					
	naphtha debutanizer bottoms, C3-5-					
	rich; Petroleum gas; [A complex					
	combination of hydrocarbons obtained					
	from the stabilization of catalytic					
	cracked naphtha. It consists of aliphatic					
	hydrocarbons having carbon numbers					
	predominantly in the range of C3					
68477-72-5	through C5.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), catalytic cracked					
	naphtha depropanizer overhead, C3-					
	rich acid-free; Petroleum gas; [A					
	complex combination of hydrocarbons					
	obtained from fractionation of catalytic					
	cracked hydrocarbons and treated to					
	remove acidic impurities. It consists of					
	hydrocarbons having carbon numbers in					
	the range of C2 through C4,					
68477-73-6	predominantly C3.]	Cancer		Maine (EU Carcinogen)		
	Casas (a atualas sua) antalistia ana alian					
	Gases (petroleum), catalytic cracker; Petroleum gas; [A complex combination					
	of hydrocarbons produced by the					
	distillation of the products from a					
	catalytic cracking process. It consists					х
	predominantly of aliphatic					
	hydrocarbons having carbon numbers					
	predominantly in the range of C1					
68477-74-7	through C6.]	Cancer		Maine (EU Carcinogen)		
	Cosos (notroloum) establishe suraba CA					
	Gases (petroleum), catalytic cracker, C1-					
	5-rich; Petroleum gas; [A complex combination of hydrocarbons produced					
	by the distillation of products from a					
	catalytic cracking process. It consists of					
	aliphatic hydrocarbons having carbon					
	numbers in the range of C1 through C6,					
68477-75-8	predominantly C1 through C5.]	Cancer		Maine (EU Carcinogen)		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68477-76-9	Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C2-4-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C2 through C6, predominantly C2 through C4.]	Cancer		Maine (EU Carcinogen)		x
68477-77-0	Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas; [A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. Its consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		x
68477-79-2	Gases (petroleum), catalytic reformer, C1-4-rich; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers in the range of C1 through C6,	Cancer		Maine (EU Carcinogen)		х



Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
			x
			^
	Maine (511 Considerate)		
	Maine (EU Carcinogen)		
	Maine (EU Carcinogen)		
	Maine (EU Carcinogen)		
			Х
	Maine (EU Carcinogen)		
	Toxic (PBT) or very Persistent, very	Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)  Maine (EU Carcinogen)  Maine (EU Carcinogen)	Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)  Maine (EU Carcinogen)  Maine (EU Carcinogen)  Maine (EU Carcinogen)



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gases (petroleum), C2-return stream;					
	Refinery gas; [A complex combination of					
	hydrocarbons obtained by the					
	extraction of hydrogen from a gas					
	stream which consists primarily of					
	hydrogen with small amounts of					
	nitrogen, carbon monoxide, methane,					
	ethane, and ethylene. It contains					
	predominantly hydrocarbons such as					
	methane, ethane, and ethylene with small amounts of hydrogen, nitrogen					
68477-84-9	and carbon monoxide.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), C4-rich; Petroleum					
	gas; [A complex combination of					
	hydrocarbons produced by distillation of products from a catalytic fractionation					×
	process. It consists of aliphatic					^
	hydrocarbons having carbon numbers in					
	the range of C3 through C5,					
68477-85-0	predominantly C4.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), deethanizer					
	overheads; Petroleum gas; [A complex					
	combination of hydrocarbons produced					x
	from distillation of the gas and gasoline					
	fractions from the catalytic cracking					
68477-86-1	process. It contains predominantly ethane and ethylene.]	Cancer		Maine (EU Carcinogen)		
08477-80-1	ethane and ethylene.j	Cancer		Walle (Lo Carcinogen)		
	Gases (petroleum), deisobutanizer					
	tower overheads; Petroleum gas; [A					
	complex combination of hydrocarbons produced by the atmospheric distillation					x
	of a butane-butylene stream. It consists					
	of aliphatic hydrocarbons having carbon					
	numbers predominantly in the range of					
68477-87-2	C3 through C4.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gases (petroleum), depropanizer dry,					
	propene-rich; Petroleum gas; [A					
	complex combination of hydrocarbons					x
	produced by the distillation of products					
	from the gas and gasoline fractions of a					
	catalytic cracking process. It consists					
	predominantly of propylene with some					
68477-90-7	ethane and propane.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), depropanizer					
	overheads; Petroleum gas; [A complex					
	combination of hydrocarbons produced					
	by distillation of products from the gas					Х
	and gasoline fractions of a catalytic					
	cracking process. It consists of aliphatic					
	hydrocarbons having carbon numbers					
	predominantly in the range of C2					
68477-91-8	through C4.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), dry sour, gas-concn					
	unit-off; Refinery gas; [The complex					
	combination of dry gases from a gas					
	concentration unit. It consists of					x
	hydrogen, hydrogen sulfide and					
	hydrocarbons having carbon numbers					
	predominantly in the range of C1					
68477-92-9	through C3.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
CAS Number	Chamical Name	Hoolth androint/a)	Persistent, very	Saurea(a)	Han ayamınla/a) ay alasa	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years)
	Gases (petroleum), gas concn.					
	reabsorber distn.; Refinery gas; [A					
	complex combination of hydrocarbons produced by distillation of products					
	from combined gas streams in a gas					
	concentration reabsorber. It consists					
	predominantly of hydrogen, carbon					
	monoxide, carbon dioxide, nitrogen,					
	hydrogen sulfide and hydrocarbons					
	having carbon numbers in the range of					
68477-93-0	C1 through C3.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), gas recovery plant					
	depropanizer overheads; Petroleum					
	gas; [A complex combination of					
	hydrocarbons obtained by fractionation					x
	of miscellaneous hydrocarbon streams.					
	It consists predominantly of					
	hydrocarbons having carbon numbers in the range of C1 through C4,					
68477-94-1	predominantly propane.]	Cancer		Maine (EU Carcinogen)		
00 117 3 1 1	predominantly propanter	- Carreer		manie (20 caromogen)		
	Gases (petroleum), Girbotol unit feed;					
	Petroleum gas; [A complex combination					
	of hydrocarbons that is used as the feed					
	into the Girbotol unit to remove					
	hydrogen sulfide. It consists of aliphatic					
	hydrocarbons having carbon numbers predominantly in the range of C2					
68477-95-2	through C4.]	Cancer		Maine (EU Carcinogen)		
	<u> </u>			, , , , , , , , , , , , , , , , , , , ,		
	Gases (petroleum), hydrogen absorber					
	off; Refinery gas; [A complex					
	combination obtained by absorbing					
	hydrogen from a hydrogen rich stream.					
	It consists of hydrogen, carbon					
68477-96-3	monoxide, nitrogen, and methane with small amounts of C2 hydrocarbons.]	Cancer		Maine (EU Carcinogen)		
J04//-3U-3	Sinan amounts of CZ Hyurocarbons.]	Calicei		Iviaille (EU Carcillogell)		1



Cases (petroleum), hydrogen-rich; Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling; It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrogen-rich; Refinery gas; [A complex combination obtained from recycled and hydrocarbons obtained from recycled hydrotreated blend oil: recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled mydrotreated blend oil: nt consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, acarbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphthat fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; Canoplex combination obtained from recycled combination combination combination combination combination combination combination combination combination com							
CAS Number Chemical Name Health endpoint(s) Bioaccumulative (vPvB) Source(s) Use example(s) or class of 4 years)   Gases (petroleum), hydrogen-rich; Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling, it consists primarily of hydrogen with various small amounts of carbon monoxide, introgen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen suifidefree; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen suifidefree; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrogen-rich; Refinery gas; [A comple							
CAS Number Chemical Name Health endpoint(s) Bioaccumulative (vPvB) Source(s) Use example(s) or class of 4 years)  Gases (petroleum), hydrogen-rich; Refinery gas.; (A complex combination separated as a gas from hydrocarbon gases by chilling, it consists primarily of hydrogen monoxide, nitrogen, methane, and C2 hydrocarbons, and C2 hydrocarbons, and C2 hydrocarbons and C2 hydrocarbons having carbon monoxide, combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carb							HPV (2006 and 3
Gases (petroleum), hydrogen-rich; Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through CS.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen suifide- free; Petroleum gas  Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled	CAS Number	Chemical Name	Health endpoint(s)	•	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling, it consists primarily of hydrogen with various small amounts of carbon monoxide, introgen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly (S8477-98-5) in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; hydrogen-rich; Refinery gas; [A complex Cancer  Maine (EU Carcinogen)			. ``	` ,	,,,	. ,,	, ,
Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling, it consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly and in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							
separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; (A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen-sulfide-free; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; (A complex combination obtained from recycled		, , , , , , , , , , , , , , , , , ,					
gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, 68477-97-4 and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							
hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							х
Carbon monoxide, nitrogen, methane, and C2 hydrocarbons.]  Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through CS.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							
Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled		, .					
Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							
oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled	68477-97-4	and C2 hydrocarbons.]	Cancer		Maine (EU Carcinogen)		
oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							
oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled		Gases (notroloum) budgetgeater bland					
Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled		* *					
obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Gases (petroleum), recycle, hydrogenrich; Refinery gas; [A complex combination obtained from recycled]							
blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide- free; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled							
hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Cancer  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled							
small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide- free; Petroleum gas  Cancer  Maine (EU Carcinogen)  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled							
carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide- free; Petroleum gas  Cancer  Maine (EU Carcinogen)  Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled							
having carbon numbers predominantly in the range of C1 through C5.]  Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfidefree; Petroleum gas  Gases (petroleum), recycle, hydrogenrich; Refinery gas; [A complex combination obtained from recycled							
Gases (petroleum), isomerized naphtha fractionator, C4-rich, hydrogen sulfide-free; Petroleum gas  Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled  Gases (petroleum), recycled							
fractionator, C4-rich, hydrogen sulfide- free; Petroleum gas  Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled	68477-98-5	in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
fractionator, C4-rich, hydrogen sulfide- free; Petroleum gas  Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled							
68477-99-6 free; Petroleum gas Cancer Maine (EU Carcinogen)  Gases (petroleum), recycle, hydrogenrich; Refinery gas; [A complex combination obtained from recycled		Gases (petroleum), isomerized naphtha					
Gases (petroleum), recycle, hydrogen- rich; Refinery gas; [A complex combination obtained from recycled							
rich; Refinery gas; [A complex combination obtained from recycled	68477-99-6	free; Petroleum gas	Cancer		Maine (EU Carcinogen)		
rich; Refinery gas; [A complex combination obtained from recycled							
combination obtained from recycled							
		1					
I reactor gases it consists primarily of							
		reactor gases. It consists primarily of					
hydrogen with various small amounts of							×
carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide, and							
saturated aliphatic hydrocarbons having							
carbon numbers in the range of C1							
68478-00-2 through C5.] Cancer Maine (EU Carcinogen)	68478-00-2		Cancer		Maine (FU Carcinogen)		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68478-01-3	Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		х
68478-02-4	Gases (petroleum), reforming hydrotreater; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C3 through C5.]	Cancer		Maine (EU Carcinogen)		
68478-03-5	Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide, nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the			Maine (EU Carcinogen)		



			Persistent, Bioaccumulative, Toxic (PBT) or very			UDV/2005 and 2
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68478-04-6	Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of		Signatura (v. 15)		ose example(s) of class	0.4 years)
68478-05-7	C1 through C5.]  Gases (petroleum), thermal cracking distn.; Refinery gas; [A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulfide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	Cancer		Maine (EU Carcinogen)  Maine (EU Carcinogen)		X
68478-17-1	Residues (petroleum), heavy coker gas oil and vacuum gas oil; Heavy Fuel oil; [A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and vacuum gas oil. It predominantly consists of hydrocarbons having carbon numbers predominantly greater than C13 and boiling above approximately 2300C (4460F).]		х	Maine (Canada PBiT); WA Appen1		х



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon numbers predominantly in the					
68478-21-7	range of C1 through C6.]  Tail gas (petroleum), catalytic cracked naphtha stabilization absorber;  Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1	Cancer		Maine (EU Carcinogen)		
	through C6.]  Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionater; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurizing processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
C 15 Humber	Circinical Name	ricatal enapolita(s)	Diodecumandare (vi vb)	Source(s)	ose example(s) of class	or 4 years)
	Tail gas (petroleum), catalytic cracker					
	refractionation absorber; Refinery gas;					
	[A complex combination of hydrocarbons obtained from					
	refractionation of products from a					
	catalytic cracking process. It consists of					
	hydrogen and hydrocarbons having					
	carbon numbers predominantly in the					
68478-25-1	range of C1 through C3.]	Cancer		Maine (EU Carcinogen)		
	Tail gas (petroleum), catalytic reformed					
	naphtha fractionation stabilizer;					
	Petroleum gas; [A complex combination of hydrocarbons obtained from the					V
	fractionation stabilization of catalytic					x
	reformed naphtha. It consists					
	predominantly of hydrocarbons having					
69479 26 2	carbon numbers predominantly in the	Cancar		Maine (FU Carsinegen)		
68478-26-2	range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		
						ļ
	Tail gas (petroleum), catalytic reformed					
	naphtha separator; Refinery gas; [A					
	complex combination of hydrocarbons obtained from the catalytic reforming of					x
	straight run naphtha. It consists of					
	hydrogen and hydrocarbons having					
60470 27 2	carbon numbers predominantly in the	Canada		Maine (FU Cousine con)		
68478-27-3	range of C1 through C6.]	Cancer		Maine (EU Carcinogen)		
	Tail gas (petroleum), catalytic reformed					
	naphtha stabilizer; Refinery gas; [A complex combination of hydrocarbons					
	lobtained from the stabilization of					x
	catalytic reformed naphtha. It consists					
	of hydrogen and hydrocarbons having					
	carbon numbers predominantly in the					
68478-28-4	range of C1 through C6.]	Cancer		Maine (EU Carcinogen)		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas; [A complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the					
68478-29-5	range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
68478-30-8	Tail gas (petroleum), hydrodesulfurized straight-run naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from hydrodesulfurization of straight-run naphtha. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]			Maine (EU Carcinogen)		х
68478-32-0	Tail gas (petroleum), saturate gas plant mixed stream, C4-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of straightrun naphtha, distillation tail gas and catalytic reformed naphtha stabilizer tail gas. It consists of hydrocarbons having carbon numbers in the range of C3 through C6, predominantly butane and isobutane.]	Cancer		Maine (EU Carcinogen)		x



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CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), saturate gas recovery plant, C1-2-rich; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed naphtha stabilizer tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of					
68478-33-1	C1through C5, predominantly methane and ethane.]	Cancer		Maine (EU Carcinogen)		
68478-34-2	Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas; [A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		x
	1,4-Benzenediamine, N,N'-mixed tolyl		X	Maine (Canada PBiT); WA		
68478-45-5	and xylyl derivs.		^	Appen1	Antioxidant, corrosion inhibitor	
68511-50-2	1-Propene, 2-methyl-, sulfurized	Blood, Skin		EPA - HC Maine (Canada PBiT); WA	Lubricants, functional fluids	х
68512-30-1	Phenol, methylstyrenated		х	Appen1	Additive to rubber	
68512-62-9	Residues (petroleum), light vacuum		х	Maine (Canada PBiT); WA Appen1	Emulsions, roofing flux	х
68512-91-4	Hydrocarbons, C3-4-rich, petroleum distillate; Petroleum gas; [A complex combination of hydrocarbons produced by distillation and condensation of crude oil. It consists of hydrocarbons having carbon numbers in the range of C3 through C5, predominantly C3 through C4.]	Cancer		Maine (EU Carcinogen)		х
68513-02-0	Naphtha (petroleum), full-range coker		х	Maine (Canada PBiT); WA Appen1		х



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CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68513-14-4	Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads; Refinery gas; [A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha followed by fractionation of the total effluent. It consists of hydrogen, methane, ethane and propane.]	Cancer		Maine (EU Carcinogen)		x
68513-15-5	Gases (petroleum), full-range straight- run naphtha dehexanizer off; petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of the full-range straight- run naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]	Cancer		Maine (EU Carcinogen)		х
68513-16-6	Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich; Petroleum gas; [A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4. It may also contain small amounts of hydrogen and hydrogen sulfide.]			Maine (EU Carcinogen)		x
68513-17-7	Gases (petroleum), light straight-run naphtha stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the stabilization of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C2 through C6.]			Maine (EU Carcinogen)		x



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas; [A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	Cancer		Maine (EU Carcinogen)		x
68513-19-9	Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas; [A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	Cancer		Maine (EU Carcinogen)		x
	Residues (petroleum), alkylation splitter, C4-rich; Petroleum gas; [A complex residuum from the distillation of streams various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C4 through C5, predominantly butane and boiling in the range of approximately -11.7°C to 27.8°C (11°F to 82°F).]	Cancer		Maine (EU Carcinogen)		x
68514-31-8	Hydrocarbons, C1-4; Petroleum gas; [A complex combination of hydrocarbons provided by thermal cracking and absorber operations and by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 and boiling in the range of approximately minus 164°C to minus 0.5°C (-263°F to 31°F).]	Cancer		Maine (EU Carcinogen)		x



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Hudusanda G1 4 successor di					
	Hydrocarbons, C1-4, sweetened; Petroleum gas; [A complex combination					
	of hydrocarbons obtained by subjecting					
	hydrocarbon gases to a sweetening					
	process to convert mercaptans or to					
	remove acidic impurities. It consists of					
	hydrocarbons having carbon numbers					
	predominantly in the range of C1					
	through C4 and boiling in the range of					
	approximately -164°C to -0.5°C (-263°F					
68514-36-3	to 31°F).]	Cancer		Maine (EU Carcinogen)		
				Maine (CA Prop 65); WA		x
68515-49-1	Di-isodecyl phthalate (DIDP)	Development		Appen1	Phthalate	~
60545 00 0	Devices 2.4.4 bisselb by a 16 devices	Black Con		504 UG	Anti-wear inhibitors in engine	x
68515-88-8	Pentene, 2,4,4-trimethyl-, sulfurized	Blood, Liver		EPA - HC	oils	
	Gases (petroleum), oil refinery gas distn.					
	off; Refinery gas; [A complex					
	combination separated by distillation of					
	a gas stream containing hydrogen,					
	carbon monoxide, carbon dioxide and					
	hydrocarbons having carbon numbers in					
	the range of C1 through C6 or obtained					
	by cracking ethane and propane. It					
	consists of hydrocarbons having carbon					
	numbers predominantly in the range of					
	C1 through C2, hydrogen, nitrogen, and					
68527-15-1	carbon monoxide.]	Cancer		Maine (EU Carcinogen)		
	Hydrocarbons, C1-3; Petroleum gas; [A					
	complex combination of hydrocarbons					
	having carbon numbers predominantly					
	in the range of C1 through C3 and					х
	boiling in the range of approximately					
	minus 164°C to minus 42°C (-263°F to -					
68527-16-2	44°F).]	Cancer		Maine (EU Carcinogen)		
	Hydrocarbons, C1-4, debutanizer				_	x
68527-19-5	fraction; Petroleum gas	Cancer		Maine (EU Carcinogen)		^



Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
Fatty acids, C6-19-branched, zinc salts		x	Maine (Canada PBiT); WA Appen1		
Fuel oil, no. 6		х	Maine (Canada PBiT); WA Appen1	Fuel oil	х
		х	Maine (Canada PBiT); WA Appen1	PFC	
1-Heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5, 5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-		x	Maine (Canada PBiT); WA Appen1	PFC	
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro- N-(2-hydroxyethyl)-N-methyl-		х	Maine (Canada PBiT); WA Appen1	PFC	
1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N- methyl-		x	Maine (Canada PBiT); WA Appen1	PFC	
Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6. It may contain trace	Cancer		Maine (FU Carcinogen)		
	Fatty acids, C6-19-branched, zinc salts  Fuel oil, no. 6  1-Pentanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-  1-Heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-  1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- N-(2-hydroxyethyl)-N-methyl- 1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-  Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1	Fatty acids, C6-19-branched, zinc salts  Fuel oil, no. 6  1-Pentanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2- hydroxyethyl)-  1-Heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-  1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluoro- N-(2-hydroxyethyl)-N-methyl- 1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N- methyl-  Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6. It may contain trace	Chemical Name  Health endpoint(s)  Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)  Fatty acids, C6-19-branched, zinc salts  Fuel oil, no. 6  1-Pentanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-  1-Heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-  1-Hexanesulfonamide, 1,1,2,2,3,3,4,5,5,6,6,-tridecafluoro- N-(2-hydroxyethyl)-N-methyl- 1-Heptanesulfonamide, 1,1,2,2,3,3,4,5,5,6,6,7,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-  Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C1 through C6. It may contain trace	Chemical Name Health endpoint(s)  Reatty acids, C6-19-branched, zinc salts  X Maine (Canada PBIT); WA Appen1  1-Pentanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6-5, rudecafluoro-N-(2- hydroxyethyl)- 1-Heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6- tridecafluoro- N-(2-hydroxyethyl)- 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6- tridecafluoro- N-(2-hydroxyethyl)- 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6- tridecafluoro- N-(2-hydroxyethyl)- 1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6- tridecafluoro- N-(2-hydroxyethyl)-N-methyl- 1-Heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N-methyl- 1-Heytanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N-methyl- 1-Heytanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7- pentadecafluoro-N-(2-hydroxyethyl)-N-methyl- 1-Heytanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,5-tridecafluoro- N-(2-hydroxyethyl)-N-methyl- 1-Heytanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,5-tridecafluoro- N-(2-hydroxyethyl)-N-methyl	Chemical Name Health endpoint(s) Persistent, very Bioaccumulative (VeVB)  Appen Maine (Canada PBiT); WA Appen 1  Fuel oil, no. 6  1-Pentanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,5,5,5-undecafluoro-N-(2- hydroxyethyl)- 1-Heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,5,5,6,6,7,77- pentadecafluoro-N-(2-hydroxyethyl)- 1-Hexanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,5,5,6,6,7,77- pentadecafluoro-N-(2-hydroxyethyl)- 1-Hexanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,5,5,6,6,7,77- pentadecafluoro-N-(2-hydroxyethyl)- 1-Hexanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heydroxyethyl)-N-methyl- 1-Heptanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heydroxyethyl-N-methyl- 1-Heptanesulfonamide, N-ethyl- 1-Heptanesulfonamide, N-ethyl- 1-Heydroxyethyl-N-methyl- 1-Heydroxyethyl-N-methyl- 1-Heydroxyethyl-N-methyl- 1-Heptanesulfonamide, N-ethyl- 1-Heydroxyethyl-N-methyl- 1-Hexplanesulfonamide, N-ethyl- 1-Hexplanesulfonamide, N-ethyl- 1-Replanesulfonamide, N-ethyl- 1-Replanesulfonami



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68602-83-5	Gases (petroleum), C1-5, wet; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil and/or the cracking of tower gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		х
68602-84-6	Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator; Refinery gas; [A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]			Maine (EU Carcinogen)		X
68603-42-9 68606-25-7	Coconut diethanolamide Hydrocarbons, C2-4; Petroleum gas	Kidney, Skin Cancer		HSDB Maine (EU Carcinogen)	Corrosion inhibitor, dishwashing detergent, surfactant	x
68606-26-8	Hydrocarbons, C3; Petroleum gas	Cancer		Maine (EU Carcinogen)		X
68606-27-9	Gases (petroleum), alkylation feed; Petroleum gas; [A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C4.]			Maine (EU Carcinogen)		x



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health enapolit(s)	bioaccumulative (vrvb)	30uice(s)	Ose example(s) of class	or 4 years)
	Gases (petroleum), depropanizer					
	bottoms fractionation off; Petroleum					
	gas; [A complex combination of					x
	hydrocarbons obtained from the					
	fractionation of depropanizer bottoms.  It consists predominantly of butane,					
68606-34-8	isobutane and butadiene.]	Cancer		Maine (EU Carcinogen)		
00000 34 0	isobatane and batadiene.j	Currect		Marie (Lo caremogen)		
	Petroleum products, refinery gases;					
	Refinery gas; [A complex combination					x
	which consists primarily of hydrogen					^
	with various small amounts of methane,					
68607-11-4	ethane, and propane.]	Cancer		Maine (EU Carcinogen) Maine (Canada PBiT); WA		
68607-30-7	Residues (petroleum), topping plant, low-sulfur		x	Appen1		x
	PBDE-153 [2,2',4,4',5,5'-			Пррепі		
68631-49-2	hexabromodiphenyl ether]		Х	WA Appen1; Oregon P3 List	Flame retardant	
	Resin acids and Rosin acids,					
	hydrogenated, esters with triethylene		х	Maine (Canada PBiT); WA		
68648-53-3	glycol			Appen1	Flame retardant	
	Gases (petroleum), hydrocracking low-					
	pressure separator; Refinery gas; [A					
	complex combination obtained by the					
	liquid-vapor separation of the					×
	hydrocracking process reactor effluent.					X
	It consists predominantly of hydrogen					
	and saturated hydrocarbons having					
68783-06-2	carbon numbers predominantly in the range of C1 through C3.]	Cancer		Maine (EU Carcinogen)		
08783-00-2	range of C1 tillough C3.j	Cancer		Iviairie (Lo Carcinogen)		
	Gases (petroleum), refinery blend;					
	Petroleum gas; [A complex combination					
	obtained from various processes. It					x
	consists of hydrogen, hydrogen sulfide					^
	and hydrocarbons having carbon					
68783-07-3	numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
00/03-0/-3	er anough es.j	Curicci		Maine (Canada PBiT); WA	Petroleum, pre -refinery	
68783-08-4	Gas oils (petroleum), heavy atmospheric		X	Appen1	stream	x



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
			x	Maine (Canada PBiT); WA		x
68783-12-0	Naphtha (petroleum), unsweetened			Appen1		
	Garage (and and an analysis and all and an and an an and an an and an					
	Gases (petroleum), catalytic cracking; Petroleum gas; [A complex combination					
	of hydrocarbons produced by the					
	distillation of the products from a					х
	catalytic cracking process. It consists					
	predominantly of hydrocarbons having					
	carbon numbers predominantly in the					
68783-64-2		Cancer		Maine (EU Carcinogen)		
00703-04-2	range of C3 through C3.j	Cancer		Walle (LO Carcillogell)		
	Gases (petroleum), C2-4, sweetened;					
	Petroleum gas; [A complex combination					
	of hydrocarbons obtained by subjecting					
	a petroleum distillate to a sweetening					
	process to convert mercaptans or to					x
	remove acidic impurities. It consists					
	predominantly of saturated and					
	unsaturated hydrocarbons having					
	carbon numbers predominantly in the					
	range of C2 through C4 and boiling in					
	the range of approximately -51°C to -					
68783-65-3	34°C (-60°F to -30°F).]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), refinery; Refinery					
	gas; [A complex combination obtained					
	from various petroleum refining					x
	operations. It consists of hydrogen and					^
	hydrocarbons having carbon numbers					
	predominantly in the range of C1					
68814-67-5	through C3.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
ore remote	Gases (petroleum), platformer products separator off; Refinery gas; [A complex combination obtained from the chemical reforming of naphthenes to aromatics. It consists of hydrogen and saturated aliphatic hydrocarbons having		Siddle and the state of the sta	Source(s)	ose example(s) of diss	5.4 years)
	carbon numbers predominantly in the					
68814-90-4	range of C2 through C4.]	Cancer		Maine (EU Carcinogen)		
68815-10-1	Petroleum, sulfurized		х	Maine (Canada PBiT); WA Appen1		
68877-63-4	Acetamide, N-[2-[(2-bromo-4,6-dinitrophenyl) azo]-5-[(2-cyanoethyl)-2-propenylamino]-4 -methoxyphenyl]-		×	Maine (Canada PBiT); WA Appen1	Dye	
68910-11-2	Benzenemethanol, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, reaction products with 1,3,5-trimethylbenzene		х	Maine (Canada PBiT); WA Appen1		
68911-58-0	Gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off, Refinery gas, [The complex combination obtained from the depentanizer stabilization of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane, and propane with various small amounts of nitrogen, hydrogen sulfide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C4 through C5.]	Cancer		Maine (EU Carcinogen)		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas; [A complex combination obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydrocarbons having carbon numbers predominantly in the range of C2 through C5.]	Cancer		Maine (EU Carcinogen)		x
	Gases (petroleum), crude oil fractionation off; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1					x
	through C5.]  Gases (petroleum), dehexanizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of combined naphtha streams. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)  Maine (EU Carcinogen)		
	Gases (petroleum), distillate unifiner desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the unifiner desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]	Cancer		Maine (EU Carcinogen)		х



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gases (petroleum), fluidized catalytic cracker fractionation off; Refinery gas; [A complex combination produced by the fractionation of the overhead product of the fluidized catalytic cracking process. It consists of hydrogen, hydrogen sulfide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of					x
		Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off; Refinery gas; [A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.]	Cancer		Maine (EU Carcinogen)		x
	Gases (petroleum), heavy distillate hydrotreater desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulfurization process. It consists of hydrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		x



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
		,	, ,		,	
	Gases (petroleum), light straight run gasoline fractionation stabilizer off;					
	Petroleum gas; [A complex combination					
	of hydrocarbons obtained by the					
	fractionation of light straight-run					X
	gasoline. It consists of saturated					
	aliphatic hydrocarbons having carbon numbers predominantly in the range of					
68919-05-1	C1 through C5.]	Cancer		Maine (EU Carcinogen)		
				, , ,		
	Gases (petroleum), naphtha unifiner					
	desulfurization stripper off; Petroleum gas; [A complex combination of					
	hydrocarbons produced by a naphtha					
	unifiner desulfurization process and					x
	stripped from the naphtha product. It					
	consists of saturated aliphatic hydrocarbons having carbon numbers					
	predominantly in the range of C1					
68919-06-2	through C4.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), platformer stabilizer					
	off, light ends fractionation; Refinery					
	gas; [A complex combination obtained					х
	by the fractionation of the light ends of					
	the platinum reactors of the platformer unit. It consists of hydrogen, methane,					
68919-07-3	ethane and propane.]	Cancer		Maine (EU Carcinogen)		
	- P - P 4			, , , , , , , , , , , , , , , , , , , ,		
	Gases (petroleum), preflash tower off,					
	crude distn.; Refinery gas; [A complex combination produced from the first					
	tower used in the distillation of crude					x
	oil. It consists of nitrogen and saturated					
	aliphatic hydrocarbons having carbon					
68919-08-4	numbers predominantly in the range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
00313-00-4	CI UIIOUgii CJ.]	Cancel		Ivianie (Lo Carcillogell)		



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and fractionation of the total effluent. It consists of methane, ethane, and			·	• • •	
68919-09-5	propane.]	Cancer		Maine (EU Carcinogen)		
68919-10-8	Gases (petroleum), straight-run stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of the liquid from the first tower used in the distillation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		х
08919-10-8	C1 through C4.j	Caricer		Mairie (Lo Carcinogen)		
	Gases (petroleum), tar stripper off; Refinery gas; [A complex combination obtained by the fractionation of reduced crude oil. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the					
68919-11-9	range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		
68919-12-0	Gases (petroleum), unifiner stripper off; Refinery gas; [A combination of hydrogen and methane obtained by fractionation of the products from the unifiner unit.]	Cancer		Maine (EU Carcinogen)		
68919-20-0	Gases (petroleum), fluidized catalytic cracker splitter overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of the charge to the C3 -C4 splitter. It consists predominantly of C3 hydrocarbons.]	Cancer		Maine (EU Carcinogen)		х



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
				Maine (Canada PBiT); WA		
68920-70-7	Alkanes, C6-18, chloro		Х	Appen1	Paraffin, plasticizer	
68921-45-9	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene		х	Maine (Canada PBiT); WA Appen1	Antioxidant additive in engine oils	х
68937-51-9	Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, reaction products with ammonia, octamethylcyclotetrasiloxane and silica		x	Maine (Canada PBiT); WA Appen1	Formulation component	
68938-42-1	Paraffin waxes and Hydrocarbon waxes, chloro, reaction products with naphthalene		х	Maine (Canada PBiT); WA Appen1	Paraffin wax	
68938-51-2	Siloxanes and Silicones, 3-cyanopropyl Me, di-Me		х	Maine (Canada PBiT); WA Appen1		
68952-76-1	Gases (petroleum), catalytic cracked naphtha debutanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		
68952-77-2	Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of catalytic cracked naphtha and distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Tail gas (petroleum), catalytic					
	hydrodesulfurized naphtha separator;					
	Refinery gas; [A complex combination of					x
	hydrocarbons obtained from the					
	hydrodesulfurization of naphtha. It					
	consists of hydrogen, methane, ethane,					
68952-79-4	and propane.]	Cancer		Maine (EU Carcinogen)		
	Tail and (a studio was) studiolot www.					
	Tail gas (petroleum), straight-run					
	naphtha hydrodesulfurizer; Refinery					
	gas; [A complex combination obtained					
	from the hydrodesulfurization of					
	straight-run naphtha. It consists of hydrogen and hydrocarbons having					
	carbon numbers predominantly in the					
68952-80-7	range of C1 through C5.]	Cancer		Maine (EU Carcinogen)		
00932-00-7	range of C1 tillough C3.]	Caricer		Ivialile (EO Carcillogell)		
	Tail gas (petroleum), thermal-cracked					
	distillate, gas oil and naphtha absorber;					
	petroleum gas; [A complex combination					
	of hydrocarbons obtained from the					x
	separation of thermal-cracked					^
	distillates, naphtha and gas oil. It					
	consists predominantly of hydrocarbons					
	having carbon numbers predominantly					
68952-81-8	in the range of C1 through C6.]	Cancer		Maine (EU Carcinogen)		
	Tail gas (petroleum), thermal cracked					
	hydrocarbon fractionation stabilizer,					
	petroleum coking; Petroleum gas; [A					
	complex combination of hydrocarbons					
	obtained from the fractionation					Х
	stabilization of thermal cracked					
	hydrocarbons from petroleum coking					
	process. It consists of hydrocarbons					
	having carbon numbers predominantly					
68952-82-9	in the range of C1 through C6.	Cancer		Maine (EU Carcinogen)		
	1,4-Benzenediamine, N,N'-mixed Ph		x	Maine (Canada PBiT); WA		x
68953-84-4	and tolyl derivs.		^	Appen1		^



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Distillates (petroleum), petroleum		V	Maine (Canada PBiT); WA		, , , , , , , , , , , , , , , , , , ,
68955-27-1	residues vacuum		Х	Appen1		Х
	Gases (petroleum, light steam-cracked,					
	butadiene conc.; Petroleum gas; [A					
	complex combination of hydrocarbons					x
	produced by the distillation of products					^
	from a thermal cracking process. It					
	consists of hydrocarbons having a					
68955-28-2	carbon number predominantly of C4.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), sponge absorber off,					
	fluidized catalytic cracker and gas oil					
	desulfurizer overhead fractionation;					
	Refinery gas; [A complex combination					x
	obtained by the fractionation of					
	products from the fluidized catalytic					
	cracker and gas oil desulfurizer. It					
	consists of hydrogen and hydrocarbons having carbon numbers predominantly					
68955-33-9	in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		
00933-33-9	in the range of C1 through C4.j	Cancer		Ivialile (EO Carcillogeli)		
	Gases (petroleum), straight-run naphtha					
	catalytic reformer stabilizer overhead;					
	Petroleum gas; [A complex combination					
	of hydrocarbons obtained by the					v
	catalytic reforming of straight-run					х
	naphtha and the fractionation of the					
	total effluent. It consists of saturated					
	aliphatic hydrocarbons having carbon					
	numbers predominantly in the range of					
68955-34-0	C2 through C4.]	Cancer		Maine (EU Carcinogen)		
68955-53-3	Amines, C12-14-tert-alkyl	Development		EPA - RBP	Organic chemical mfg	Х
	1-Heptanesulfonamide, N-ethyl-			Maire (Conside DDIT) Min		
69057.63.0	1,1,2,2,3,3,4,4,5, 5,6,6,7,7,7-		х	Maine (Canada PBiT); WA	DEC	
68957-62-0	pentadecafluoro-			Appen1	PFC	



				1	1	
CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
68989-88-8	Gases (petroleum), crude distn. and catalytic cracking; Refinery gas; [A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulfide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C1 through C6.]	Cancer		Maine (EU Carcinogen)		x
69409-94-5	Fluvalinate	Development		Maine (CA Prop 65); WA Appen1	Pesticide	
69430-47-3	Siloxanes and Silicones, di-Me, reaction products with Me hydrogen siloxanes and 1,1,3,3-tetramethyldisiloxane	Development	х	Maine (Canada PBiT); WA Appen1	Polymer, crosslinking agent	
69695-75-6	9,10-Anthracenedione, 1-amino-4-[[3- [(dimethylamino) methyl]phenyl]amino] , monohydrochloride		x	Maine (Canada PBiT); WA Appen1		
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl		х	Maine (EPA Final PBT Rule for TRI; WA PBT List); WA Appen1; Oregon P3 List	PCB	
69806-40-2	Haloxyfop-methyl	Kidney, Reproduction		IRIS; WA Appen1 Maine (CA Prop 65); WA	Pesticide (not EPA registered)	
69806-50-4 69898-41-5	Fluazifop butyl furo[3,4-b]pyridin-7(5H)-one, 5-[4- (diethylamino)-2-ethoxyphenyl]-5-(1- ethyl-2-methyl-1H-indol-3-yl)-	Development	х	Appen1  Maine (OSPAR Chemicals of Concern); WA Appen1	Pesticide (EPA reg. cancelled)	
69898-66-4	5-Isobenzofurancarboxylic acid, 3-[4- (diethylamino)-2-ethoxyphenyl] -3-(1- ethyl-2-methyl-1H-indol-3-yl)-1,3 - dihydro-1-oxo-, ethyl ester		х	Maine (Canada PBiT); WA Appen1		
69898-67-5	5-Isobenzofurancarboxylic acid, 1-[4-(diethylamino)-2-ethoxyphenyl] -1-(1-ethyl-2-methyl-1H-indol-3-yl)-1,3 -dihydro-3-oxo-, ethyl ester		x	Maine (Canada PBiT); WA Appen1		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS IVAIIIDEI	Chemical Name	Treatti enapoiit(3)	bloaccumulative (vr vb)	Source(s)	Ose example(s) of class	or 4 years)
				Maine (OSPAR Chemicals of		
			Х	Concern; OSPAR Chemicals for		
70124-77-5	flucythrinate			Priority Action); WA Appen1	Pesticide (EPA reg. cancelled)	
	Benzenesulfonic acid, [(9,10-dihydro-					
	9,10-dioxo- 1,4- anthracenediyl)bis(imino-4,1-		х	Maine (Canada PBiT); WA		
70161-19-2	phenyleneoxy)]bis -, disodium salt			Appen1		
70101 13 2	prierry iericoxy) juis y disociam suic			/ ipperiz		
	2-Naphthalenesulfonamide, N-[2-					
	(acetyloxy)ethyl]-6- hydroxy-N-methyl-5-		Х	Maine (Canada PBiT); WA		
70210-08-1	[[4-(phenylazo)phenyl]azo]-			Appen1	Dye	
				Maine (WA PBT List; Canada		
70225 14 0	Diethanolamine salt [Perfluorooctane	Development Liver Thomaid	Х	PBiT); WA Appen1; Minnesota	DEC	
70225-14-8	sulfonates (PFOS)] 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-	Development, Liver, Thyroid		HRL	PFC Industrial additive for polymers	
70321-86-7	methyl-1-phenylethyl) phenol	Liver		EPA - HC	and coatings	х
70321 00 7	Benzenepropanoic acid, 3,5-bis(1,1-			LITT TIE	una coatings	
	dimethylethyl)-4-hydroxy-, (1,2-dioxo-					
	1,2-ethanediyl) bis(imino-2,1-		Х	Maine (Canada PBiT); WA	Phenolic antioxidant/metal	
70331-94-1	ethanediyl) ester			Appen1	deactivator	
70262 50 4	DCD 004 /2 4 41 5 to be obtained in the collision		x	0	Endough doubted a strong	
70362-50-4	PCB-081 (3,4,4',5-tetrachlorobiphenyl)			Oregon P3 List Maine (Canada PBiT); WA	Enclosed electrical systems	
70514-12-4	Lubricating oils, used		х	Appen1	Lubricating oils	
7001112	Distillates (petroleum), intermediate			Maine (Canada PBiT); WA		
70592-76-6	vacuum		Х	Appen1		х
			х	Maine (Canada PBiT); WA		х
70592-77-7	Distillates (petroleum), light vacuum		^	Appen1		^
70502 70 0	Distillator (control		x	Maine (Canada PBiT); WA		х
70592-78-8	Distillates (petroleum), vacuum			Appen1		
70592-79-9	Residues (petroleum), atm. tower, light		х	Maine (Canada PBiT); WA Appen1		x
70332 73-3	nesidaes (petroleum), atm. tower, light			Appeni		
			х	Maine (EPA Final PBT Rule for		
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran			TRI; WA PBT List); WA Appen1		
				Maine (OSPAR Chemical of		
			х	Concern; Canada PBiT); WA		
70776-03-3	naphthalene, chloro derivs.			Appen1	PCN	



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	2-Butanone, 4-[[[1,2,3,4,4a,9,10,10a-	ricular enapolita	bioaccamaiative (vi vb)	Jouree(J)	OSC CAMPIPE(S) OF CIUSS	Of 4 years)
	octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenyl		х	AAsina (Canada DDIT), MA		
70776-86-2	]methyl](3-oxo-3-phenylpropyl)amino]-, [1R- $(1\alpha,4a\beta,10a\alpha)$ ]-			Maine (Canada PBiT); WA Appen1		
70969-47-0	Thiols, C8-20, $\gamma$ - $\omega$ -perfluoro, telomers with acrylamide		х	Maine (Canada PBiT); WA Appen1	AFFF (Aqueous film forming foam)	
71032-95-6	2-Naphthalenesulfonic acid, 7-[[4,6-bis[[3-(diethylamino) propyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy -3-[[4-(phenylazo)phenyl]azo]-, monoacetate (salt)		х	Maine (Canada PBiT); WA Appen1	Dye	
72102-55-7	Methylium, [4-(dimethylamino)phenyl] bis[4-(ethylamino)-3-methylphenyl]-, acetate		х	Maine (Canada PBiT); WA Appen1	dye	
72102-56-8	Methylium, [4-(dimethylamino)phenyl] bis[4-(ethylamino)-3-methylphenyl]-, chloride		×	Maine (Canada PBiT); WA Appen1	Chemical intermediate	
72102-64-8	Methylium, bis[4- (dimethylamino)phenyl] [4-(ethylamino) 3-methylphenyl]-, chloride		x	Maine (Canada PBiT); WA Appen1	Chemical intermediate	
72318-87-7	Phenol, [[[3- (dimethylamino)propyl]amino]methyl]-, isobutylenated		х	Maine (Canada PBiT); WA Appen1		
72490-01-8	Fenoxycarb	Cancer		Maine (CA Prop 65); WA Appen1	Pesticide	
72629-94-8	Pentacosafluorotridecanoic acid		x	REACH Substances of Very High Concern (vPvB)	prodction of fluoropolymers and fluorotelomers	
72749-91-8	Benzenesulfonic acid, [(9,10-dihydro-9,10-dioxo-1,4-anthracenediyl)diimino]bis[(1,1-dimethylethyl)-, sodium salt		х	Maine (Canada PBiT); WA Appen1		
72812-39-6	Methylium, bis(4-amino-3,5- dimethylphenyl) (2,6-dichlorophenyl)-, phosphate (1:1)		х	Maine (Canada PBiT); WA Appen1		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
CAS Nulliber	Chemical Name	Health enupolit(s)	bloaccullidative (VFVb)	30urce(s)	Ose example(s) of class	OI 4 years)
	Benzonitrile, 2-[[4-[[2-(acetyloxy)ethyl]					
	butylamino]-2-methylphenyl]azo]-3-		Х	Maine (Canada PBiT); WA		
72828-63-8	bromo-5-nitro -			Appen1		
	Chromate(1-), bis[3,5-bis(1,1-		х			
72060 05 2	dimethylethyl) -2-hydroxybenzoato(2-)-			Maine (Canada PBiT); WA	Laboratoria.	
72869-85-3	O1,O2]-, hydrogen			Appen1	Inks, toner	
			х	Maine (EPA Final PBT Rule for		
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran		, "	TRI; WA PBT List); WA Appen1	Combustion by-product	
	Methanesulfonamide, N-[2-[(2,6-					
	dicyano-4-methylphenyl) azo]-5-		х	Maine (Canada PBiT); WA		
72968-82-2	(dipropylamino)phenyl]-			Appen1	Pigment, dye and printing ink	
			х	Maine (Canada PBiT); WA		
73398-86-4	Pyridine, 4-(3-chloro-5-propylphenyl)-			Appen1		
72200 07 5	Duriding 4 (4 chlore 2 propulational)		Х	Maine (Canada PBiT); WA		
73398-87-5	Pyridine, 4-(4-chloro-3-propylphenyl)- 3-Pyridinecarbonitrile, 5-[[4-[(2,6-			Appen1		
	dichloro-4-nitrophenyl) azo]-2,5-					
	dimethoxyphenyl]azo]-2,6-bis[(2 -		Х	Maine (Canada PBiT); WA		
73528-78-6	methoxyethyl)amino]-4-methyl-			Appen1		
74051-80-2	Sethoxydim	Blood		IRIS; WA Appen1	Pesticide	
	9,10-Anthracenedione, 1-[(5,7-dichloro-					
	1,9-dihydro- 2-methyl-9-		х			
74225 50 0	oxopyrazolo[5,1-b]quinazolin-3-yl)azo]-			Maine (Canada PBiT); WA	D'accept Ded 254	
74336-60-0	(Pigment Red 251)			Appen1  Maine (EU Endocrine Disruptor;	Pigment Red 251	
				EPA Final PBT Rule for TRI; WA		
			Х	PBT List); WA Appen1; Oregon		
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl	Endocrine system		P3 List	PCB	
75321-20-9	1,3-Dinitropyrene	Cancer		IARC 2B and Cal Prop 65	exhaust particulate	
	Phosphonium, triphenyl(phenylmethyl)-					
	, salt with 4,4'-[2,2,2-trifluoro-1-(		Х			
75760 65 0	trifluoromethyl)ethylidene]bis[phenol]			Maine (Canada PBiT); WA	Catalist assissance	
75768-65-9	(1:1) IQ (2-Amino-3-methylimidazo[4,5-f]			Appen1 Maine (CA Prop 65; IARC; NTP	Catalyst, curing agent	
76180-96-6	quinoline)	Cancer		11th ROC); WA Appen1	Research, in broiled food	
7 0 1 0 0 0	quitoinie)	Carreer		Maine (CA Prop 65); WA	nescaren, in bronea rood	
76578-14-8	Quizalofop-ethyl	Reproduction		Appen1	Pesticide	
76738-62-0	Paclobutrazol	Liver		IRIS; WA Appen1	Pesticide	



CAC Number	Chaminal Name	Haalah andasish/a)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very		Han assemble on slave	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years)
76842-07-4	PCB 122 (2,3,3',4,5 - Pentachlorobiphenyl)	Endocrine system		Maine (EU Endocrine Disruptor)		
	MeIQ (2-Amino-3,4-			Maine (CA Prop 65; NTP 11th		
77094-11-2	dimethylimidazo[4,5-f]quinoline)	Cancer		ROC); WA Appen1	In cooked meat and fish	
77182-82-2	Glufosinate-ammonium	Kidney		IRIS; WA Appen1	Pesticide	
	MX (3-chloro-4-dichloromethyl-5-			Maine (CA Prop 65); WA		
77439-76-0	hydroxy-2(5H)-furanone)	Cancer		Appen1	Research	
77500-04-0	MelQx (2-Amino-3,8- dimethylimidazo[4,5-f]quinoxaline)	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen1	In cooked meats	
	_			Maine (CA Prop 65); WA		
77501-63-4	Lactofen	Cancer		Appen1	Pesticide	
77536-67-5	asbestos (anthophyllite)	Cancer		Maine (EU Carcinogen)		
77536-68-6	asbestos (tremolite)	Cancer		Maine (EU Carcinogen)		
78587-05-0	Hexythiazox (Savey)	Adrenal complex, Blood		IRIS; WA Appen1	Pesticide	
79277-27-3	Thifensulfuron-methyl (Harmony)	Blood, Body weight		IRIS; WA Appen1	Pesticide	
	Amines, C18-22-tert-alkyl,		x	Maine (Canada PBiT); WA	Lubricating agent, lubricant	
79357-73-6	(chloromethyl)phosphonates (2:1)			Appen1	additive	
79542-46-4	Acetamide, N-[4-chloro-2-[2-(2-chloro-4-nitrophenyl)azo]-5-[(2-hydroxy-3-phenoxypropyl) amino]phenyl]-		x	Maine (Canada PBiT); WA Appen1		
				Maine (CA Prop 65); WA		
79748-81-5	Fusarin C	Cancer		Appen1	Mycotoxin	
	morpholine, 2,6-dimethyl-4-(C10-13)-			Maine (OSPAR Chemicals of		
81412-43-3	alkyl-		Х	Concern); WA Appen1	Pesticide (not EPA registered)	
82657-04-3	Bifenthrin (Talstar)	Endocrine system	х	Maine (EU Endocrine Disruptor); WA Appen1; Oregon P3 List	Pesticide	
83249-47-2	Acetamide, N-[2-[(2-bromo-6-cyano-4-nitrophenyl)azo]-5-(dipropylamino)phenyl]-		х	Maine (Canada PBiT); WA Appen1		
83249-53-0	Methanesulfonamide, N-[2-[(2-bromo-6 cyano-4- methylphenyl)azo]-5- (diethylamino)phenyl]-		х	Maine (Canada PBiT); WA Appen1		
83249-54-1	Methanesulfonamide, N-[2-[(2-bromo-6 cyano-4- methylphenyl)azo]-5-(dipropylamino)phenyl]-		х	Maine (Canada PBiT); WA Appen1		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Methanesulfonamide, 1-chloro-N-[2,3,4	-	x			
	trichloro- 6-(2,4-			Maine (Canada PBiT); WA		
83721-47-5	dichlorophenoxy)phenyl]-, sodium salt			Appen1		
	Mathagas Ifagas ida 1 ahlas N					
	Methanesulfonamide, 1-chloro-N-		x	Maine (Canada PBiT); WA		
83721-48-6	[2,3,4,5-tetrachloro- 6-(2,4-			, ,,,		
83/21-48-6	dichlorophenoxy)phenyl]-, sodium salt			Appen1		
	9,10-Anthracenedione, 1-amino-4-[[3-					
	[(dimethylamino) methyl]phenyl]amino]		x	Maine (Canada PBiT); WA		
83968-86-9	, monoacetate			Appen1		
03300 00 3	, monoucctute			Maine (Canada PBiT); WA		
84082-38-2	Alkanes, C10-21, chloro		х	Appen1		
0.002.00.2	runaries, etc Et, emere			Maine (OSPAR Chemicals of		
84852-15-3	phenol, 4-nonyl-, branched		х	Concern); WA Appen1	Epoxy hardener	Х
0 1002 20 0						
	2-Naphthalenecarboxamide, 4-[(2,4-		x	Maine (Canada PBiT); WA		
85005-63-6	dinitrophenyl)azo]-3-hydroxy-N-phenyl-			Appen1		
85186-47-6	Xanthylium, 9-(2-carboxyphenyl)-3,6- bis(diethylamino)-, salt with mono-C10- 14-alkylbenzenesulfonic acid (1:1)		х	Maine (Canada PBiT); WA Appen1		
				Maine (EU Endocrine Disruptor;		
	stannane, tributyl-,		x	OSPAR Chemicals of Concern);		
85409-17-2	mono(naphthenoyloxy) derivs.	Endocrine system		WA Appen1	Pesticide (not EPA registered)	
			x	Maine (Canada PBiT); WA		
85422-92-0	Paraffin oils, chloro		^	Appen1		
85509-19-9	Flusilazole (NuStar)	Liver		IRIS; WA Appen1	Pesticide (not EPA registered)	
85535-84-8	Short-chain chlorinated paraffins		х	Maine (EU Endocrine Disruptor; WA PBT List; EU PBT List; OSPAR Chemicals of Concern; REACH Substances of Very High Concern; Canada PBiT); WA Appen1	Lubricants in metal cutting, plasticizers and flame retardants in plastics	
85535-85-9	alkanes, C14-17, chloro	Endocrine system	x	Maine (EU Endocrine Disruptor; Canada PBiT); WA Appen1		
85535-86-0	Alkanes, C18-28, chloro		х	Maine (Canada PBiT); WA Appen1		



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	3H-Indol-3-one, 5,7-dibromo-2-(5-					
	bromo-7- chloro-1,3-dihydro-3-oxo-2H-		x	Maine (Canada PBiT); WA		
85702-64-3	indol-2-ylidene)-1,2-dihydro -			Appen1		
	2,9,11,13-Tetraazanonadecanethioic					
	acid, 19-isocyanato-11-(6-		X			
	isocyanatohexyl)-10,12-dioxo-, S-[3-		^	Maine (Canada PBiT); WA		
85702-90-5	(trimethoxysilyl)propyl] ester			Appen1		
	(			7 PP 5 11 2		
	Gasoline (A complex combination of					
	hydrocarbons consisting primarily of					
	paraffins, cycloparaffins, aromatic and		x			
	olefinic hydrocarbons having carbon					
	numbers predominantly greater than C3					
86290-81-5	and boiling in the range of 30°C to			Maine (Canada PBiT); WA	Gasoline	
86290-81-5	260°C (86°F to 500°F)) Butanamide, 2-[2,4-bis(1,1-			Appen1	Gasoline	
	dimethylpropyl) phenoxy]-N-[4-(2-		x	Maine (Canada PBiT); WA		
86551-61-3	formylhydrazino)phenyl]-		^	Appen1		
	propanoic acid, 2-[4-[[3-chloro-5-			P.P. 5		
	(trifluoromethyl)-2-					
	pyridinyl]oxy]phenoxy]-, 2-ethoxyethyl		Х	Maine (OSPAR Chemicals of		
87237-48-7	ester			Concern); WA Appen1	Pesticide (not EPA registered)	
87741-01-3	Hydrocarbons, C4, Petroleum gas	Cancer		Maine (EU Carcinogen)		
99671 90 0	Musichutonii	Davidanment Benraduation	X	Maine (CA Prop 65);WA	Docticido	
88671-89-0	Myclobutanil Carbonic acid disodium salt, reaction	Development, Reproduction		Appen1; Oregon P3 List	Pesticide	
	products with aniline, 4-					
	nitrobenzenamine, p-		х			
	phenylenediamine, sodium sulfide,			Maine (Canada PBiT); WA		
90268-98-7	sulfur and p-toluidine			Appen1		
90622-55-2	Alkanes, C1-4, C3-rich, Petroleum gas	Cancer		Maine (EU Carcinogen)		
				Maine (EU PBT List; OSPAR		
			Х	Chemicals of Concern); WA	In and the collection	
00640.80.5	Anthracana ail	Cancar		''	In coal tar pitch, coal tar	
90640-80-5	Anthracene oil	Cancer		Very High Concern Maine (EU PBT List; OSPAR	enamel mfg	
				Chemicals of Concern); WA		
			Х	Appen1; REACH Substances of		
90640-81-6	Anthracene oil, anthracene paste	Cancer		Very High Concern		



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os North	<b>C</b> L and Market	Haddle and a fall (A)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very		Hara and Aradas	HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
90640-82-7	Anthracene oil, anthracene-low	Cancer	x	Maine (EU PBT List; OSPAR Chemicals of Concern); WA Appen1; REACH Substances of Very High Concern	Solvent	
		Cancel	x	Maine (EU PBT List; OSPAR Chemicals of Concern); WA	Solvent	
90640-86-1	Distillates (coal tar), heavy oils			Appen1		
90729-40-1	3-Pyridinecarbonitrile, 1-butyl-5-[[4-(4-chlorobenzoyl) -2-nitrophenyl]azo]-1,2-dihydro-6-hydroxy-4 -methyl-2-oxo-		х	Maine (Canada PBiT); WA Appen1		
90982-32-4	Chlorimuron-ethyl	Blood		IRIS; WA Appen1	Pesticide	
91465-08-6	Cyhalothrin (Karate)	Endocrine system	x	Maine (EU Endocrine Disruptor); WA Appen1; Oregon P3 List	Pesticide	
91995-15-2	Anthracene oil, anthracene paste, anthracene fraction; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by the crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of 330°C to 350°C (626°F to 662°F). It contains chiefly anthracene, carbazole and phenanthrene.]	Cancer	x	Maine (EU PBT List; OSPAR Chemicals of Concern); WA Appen1; REACH Substances of Very High Concern		
91995-17-4	Anthracene oil, anthracene paste, distn. lights; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of approximately 290°C to 340°C (554°F to 644°F). It contains chiefly trinuclear aromatics and their dihydro derivatives.]	Cancer	x	Maine (EU PBT List; OSPAR Chemicals of Concern); WA Appen1; REACH Substances of Very High Concern		
91995-42-5	Distillates (coal tar), heavy oils, pyrene fraction		х	Maine (EU PBT List; OSPAR Chemicals of Concern); WA Appen1		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
				Maine (EU PBT List; OSPAR		
	Distillates (coal tar), pitch, pyrene		х	Chemicals of Concern); WA		
91995-52-7	fraction			Appen1		
	Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas; [A complex combination produced by desulfurization of gas oils with diethanolamine. It consists predominantly of hydrogen sulfide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of					
92045-15-3	C1 through C5.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), gas oil hydrodesulfurization effluent; Refinery gas; [A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C3.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), gas oil hydrodesulfurization purge; Refinery gas; [A complex combination of gases obtained from the reformer and from the purges from the hydrogenation reactor. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C1 through C4.]	Cancer		Maine (EU Carcinogen)		



			Persistent, Bioaccumulative, Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Gases (petroleum), hydrogenator					
	effluent flash drum off; Refinery gas; [A					
	complex combination of gases obtained					
	from flash of the effluents after the					
	hydrogenation reaction. It consists					
	predominantly of hydrogen and					
	aliphatic hydrocarbons having carbon					
	numbers predominantly in the range of					
92045-18-6	C1 through C6.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), naphtha steam					
	cracking high-pressure residual;					
	Refinery gas; [A complex combination					
	obtained as a mixture of the non-					
	condensable portions from the product					
	of a naphtha steam cracking process as					
	well as residual gases obtained during the preparation of subsequent					
	products. It consists predominantly of					
	hydrogen and paraffinic and olefinic					
	hydrocarbons having carbon numbers					
	predominantly in the range of C1					
	through C5 with which natural gas may					
92045-19-7	also be mixed.]	Cancer		Maine (EU Carcinogen)		
	Gases (petroleum), residue visbaking					
	off; Refinery gas; [A complex					
	combination obtained from viscosity					
	reduction of residues in a furnace. It					
	consists predominantly of hydrogen					
	sulfide and paraffinic and olefinic					
	hydrocarbons having carbon numbers					
00045 55 5	predominantly in the range of C1					
92045-20-0	through C5.]	Cancer		Maine (EU Carcinogen)		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
	Gases (petroleum), steam-cracker C3-					
	rich; Petroleum gas; [A complex					
	combination of hydrocarbons produced					
	by the distillation of products from a					
	steam cracking process. It consists					
	predominantly of propylene with some					
	propane and boils in the range of					
	approximately -70°C to 0°C (-94°F to 32°F).]	Cancer		Maine (EU Carcinogen)		
92043-22-2	32 1 ).]	Caricei		Walle (LO Carcillogell)		
	Hydrocarbons, C4, steam-cracker					
	distillate; Petroleum gas; [A complex					
	combination of hydrocarbons produced					
	by the distillation of the products of a					
	steam cracking process. It consists					
	predominantly of hydrocarbons having					
	a carbon number of C4, predominantly					
	1-butene and 2-butene, containing also					
	butane and isobutene and boiling in the					
	range of approximately minus 12°C to					
92045-23-3	5°C (10.4°F to 41°F).]	Cancer		Maine (EU Carcinogen)		
			x	Maine (Canada PBiT); WA		
	Lubricating oils, used, vacuum distd.			Appen1		
	Naphtha (petroleum),		х	Maine (Canada PBiT); WA		
92045-52-8	hydrodesulfurized full-range			Appen1		
	Petroleum gases, liquefied, sweetened,					
	C4 fraction; Petroleum gas; [A complex combination of hydrocarbons obtained					
	by subjecting a liquefied petroleum gas					
	mix to a sweetening process to oxidize					
	mercaptans or to remove acidic					
	impurities. It consists predominantly of					
	C4 saturated and unsaturated					
	hydrocarbons.]	Cancer		Maine (EU Carcinogen)		
				Maine (EU PBT List; OSPAR		
			х	Chemicals of Concern); WA		
92061-94-4	Residues (coal tar), pitch distn.			Appen1		
	Carbamic acid, cyclohexyl-, nitrilotri-2,1-			Maine (Canada PBiT); WA		
93918-79-7	ethanediyl ester		х	Appen1		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
CAS Number	2-Naphthalenecarboxamide, N-(2-	пеанн енирони(s)	Bloaccullulative (VPVB)	Source(s)	Ose example(s) or class	or 4 years)
	ethoxyphenyl)-3-hydroxy- 4-[(2-		x	Maine (Canada PBiT); WA		
94199-57-2	nitrophenyl)azo]-			Appen1	Dye	
	Methanesulfonamide, 1-chloro-N-(2-					
	phenoxyphenyl)-, pentachloro deriv.,		x	Maine (Canada PBiT); WA		
94248-26-7	sodium salt			Appen1		
	Raffinates (petroleum), steam-cracked C4 fraction cuprous ammonium acetate extn., C3-5 and C3-5 unsatd., butadiene-					
97722-19-5	free; Petroleum gas	Cancer		Maine (EU Carcinogen)		
	4,4'-Dihydroxy-2,3,5,6-			Maine (EU Endocrine Disruptor);		
100702-98-5	tetrachlorobiphenyl	Endocrine system		WA Appen1	PCB	
					blue-green algae toxin,	
					contaminant in blue-green	
101043-37-2	Microcystin-LR	Cancer; Liver		IARC 2B; MN HRL	algae health supplement	
101200-48-0	Tribenuron-methyl (Express)	Blood chemistry		IRIS; WA Appen1	Pesticide	
			х	Maine (Canada PBiT); WA	Fragrance, perfume,	
101200-53-7	Pyridine, 2-[3-(3-chlorophenyl)propyl]-		,	Appen1	deodorizer, flavoring agent	
	distillates (petroleum), alkene-alkyne					
	manuf. pyrolysis oil, condensed arom.		х	Maine (OSPAR Chemicals of		
101316-50-1	ring-contg.			Concern); WA Appen1		
101316-83-0	Tar brown-coal	Cancer		Maine (EU Carcinogen)		
101316-84-1	Tar, brown-coal, low-temp.	Cancer		Maine (EU Carcinogen)		
			х	Maine (Canada PBiT); WA		
104948-36-9	Alkanes, C10-22, chloro		^	Appen1	Paraffins	
	PhiP(2-Amino-1-methyl-6-			Maine (CA Prop 65; NTP 11th		
105650-23-5	phenylimidazol[4,5-b]pyridine)	Cancer		ROC); WA Appen1	Cooked meats	
				Maine (CA Prop 65); WA		
105735-71-5	3,7-Dinitrofluoranthene	Cancer		Appen1	Diesel exhaust	
			x	Maine (Canada PBiT); WA		
106232-85-3	Alkanes, C18-20, chloro		^	Appen1	Paraffins	
	Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with 4-[(4-aminophenyl)azo]-3-methylbenzenamine and sodium		х	Maine (Canada PBiT); WA		
106276-78-2	methoxide			Appen1	Colorant for textile fiber	
108004-27-9	1H-Imidazole-1-ethanol, $\alpha$ -(2,4-dichlorophenyl) - $\alpha$ -[2-(2,4-dichlorophenyl)cyclopropyl]-, [1 $\alpha$ (R),2 $\beta$ ]-		x	Maine (Canada PBiT); WA Appen1		



		Mark and active)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very		Harris and Marchael	HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Chlorinated paraffins (Average chain					
	length, C12;approximately 60 percent			Maine (CA Prop 65; NTP 11th		
108171-26-2	chlorine by weight)	Cancer		ROC); WA Appen1	Paraffins	
110235-47-7	Mepanipyrim	Cancer		Maine (CA Prop 65)	Pesticide (not EPA registered)	
				Maine (EU Endocrine Disruptor);		
111810-41-4	4-Hydroxy-3,3',4',5'-tetrachlorobiphenyl	Endocrine system		WA Appen2		
				Maine (CA Prop 65); WA		
116355-83-0	Fumonisin B1	Cancer		Appen1	Fungal toxin	
	Phosphine oxide, (butylphenyl)bis(2,6-		x	Maine (Canada PBiT); WA		
117310-64-2	dichlorobenzoyl)-			Appen1	РСВ	
	, ,			Maine (EU Endocrine Disruptor);		
118174-38-2	6-Methyl-1,3,8-trichlorodibenzofuran	Endocrine system		WA Appen1	Furan	
120068-37-3	Fipronil	Zinacomic ofocom	Х	Oregon P3 List	Pesticide	
120000 37 3	Resin acids and Rosin acids, fumarated,		^	Maine (Canada PBiT); WA	Formulation component,	
124751 15 1	· · · · · · · · · · · · · · · · · · ·		x			
124751-15-1	barium salts			Appen1	pigment, dye, printing ink	
125328-28-1	Phenol, 4,4'-(1-methylethylidene)bis-, reaction products with hexakis(methoxymethyl)melamine		х	Maine (Canada PBiT); WA Appen1	Plastic, synthetic resin	
	Lubricating oils (petroleum),		х	Maine (Canada PBiT); WA		
125471-97-8	hydrotreated, used, distn. residues		^	Appen1		
127126-02-7	Propanenitrile, 3-[[2-(acetyloxy)ethyl][4-[(6,7-dichloro-2-benzothiazolyl)azo]phenyl]amino]-		х	Maine (Canada PBiT); WA Appen1		
128683-25-0	Crude oil (oil sand)		х	Maine (Canada PBiT); WA Appen1		
128683-26-1	Distillates (petroleum), full-range atm.		х	Maine (Canada PBiT); WA Appen1		
128683-28-3	Gas oils (petroleum), full-range		х	Maine (Canada PBiT); WA Appen1		
128683-29-4	Gas oils (oil sand), hydrotreated		х	Maine (Canada PBiT); WA Appen1		
128683-30-7	Gas oils (oil sand)		х	Maine (Canada PBiT); WA Appen1		
128683-33-0	Naphtha (oil sand), hydrotreated		х	Maine (Canada PBiT); WA Appen1		



			Persistent, Bioaccumulative,			
			Toxic (PBT) or very			
			Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
C/15 Humber	Chemical realite	Treatm enapolitics)	Dioaccamanative (ii 12)	Maine (Canada PBiT); WA	OSC CALITIFICATION OF CLUSS	or 4 years)
128683-35-2	Residues (oil sand), atm. tower		x	Appen1		
	Hydrocarbons, C12-25, dehydrated used			Maine (Canada PBiT); WA		
129566-94-5	lubricating oil distillates		x	Appen1		
	Residues (petroleum), vacuum,			Maine (Canada PBiT); WA		
129893-11-4	hydrocracked, naphtha fraction		x	Appen1		
				Maine (Canada PBiT); WA		
129893-17-0	Lubricating oils, used, residues		X	Appen1	Lubricating oils	х
	Lubricating oils, used, vacuum distd,			Maine (Canada PBiT); WA		
129893-18-1	clay-treated		X	Appen1	Lubricating oils	
	Natural gas condensates, C4-12		· ·	Maine (Canada PBiT); WA		
129893-21-6	distillate		Х	Appen1		
	Natural gas condensates, C5-12		v	Maine (Canada PBiT); WA		
129893-22-7	distillate		Х	Appen1		
132207-32-0	Asbestos	Cancer		Maine (EU Carcinogen)		
	Lubricating oils, used, distd., C5-18		X	Maine (Canada PBiT); WA		
132538-91-1	fraction		^	Appen1		
			X	Maine (Canada PBiT); WA		
132538-93-3	Lubricating oils, used, distd., light oil		^	Appen1		
			X	Maine (CA Prop 65); WA		
140923-17-7	Iprovalicarb (also CAS#140923-25-7)	Cancer		Appen1	Pesticide (not EPA registered)	
				Maine (CA Prop 65); WA		
141112-29-0	Isoxaflutole	Cancer		Appen1	Pesticide	
177106 60 7				(0. 0. 65)		
177406-68-7	Benthiavalicarb-isopropyl	Cancer		Maine (CA Prop 65)	Pesticide (not EPA registered)	
100004 64 0	PBDE-100 [2,2',4,4',6-		x	One and D3 Lint	Slaves vetavdavt	
189084-64-8	Pentabromodiphenyl ether]			Oregon P3 List	Flame retardant	
	Benzenesulfonic acid, hydroxydinonyl-,			Maine (Canada PBiT); WA		
223777-68-2	branched, monoammonium salt		Х	Appen1		
223777-08-2	branched, monoammonium sait			Maine (EPA Priority Chemicals);		
N/A	DDT, DDD, DDE		x	Oregon P3 List		
N/A				Oregon i S List		
N/A	Nickel refinery dust	Cancer		WA Appen2; Minnesota HRV		
,				Maine (EU Endocrine Disruptor);		
N/A	4-OH-2,2',4',5,5'-pentachlorobiphenyl	Endocrine system		WA Appen2		
	Aluminosilicate Refractory Ceramic	,		REACH Substances of Very High		
N/A	Fibers	Cancer		Concern		
				Maine (CA Prop 65; IARC); WA		
N/A	Aristolochic acids	Cancer, Kidney		Appen2		
				Maine (CA Prop 65); WA		
N/A	Benzidine-based dyes	Cancer		Appen2		



			Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very			HPV (2006 and 3
CAS Number	Chemical Name	Health endpoint(s)	Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	of 4 years) <sup>1,2</sup>
	Dyes metabolized to 3,3'-			Maine (CA Prop 65; NTP 11th		
N/A	dimethoxybenzidine	Cancer		ROC); WA Appen2		
	Dyes metabolized to 3,3'-			Maine (CA Prop 65; NTP 11th		
N/A	dimethylbenzidine	Cancer		ROC); WA Appen2		
				Maine (IARC; NTP 11th ROC);		
N/A	Dyes metabolized to benzidine	Cancer		WA Appen2		
	Methoxyethyl acrylate tributyltin,			Maine (EU Endocrine Disruptor);		
N/A	copolymer	Endocrine system		WA Appen2		
	Methylhydrazine and its salts,					
	methylhydrazine, methylhydrazine			Maine (CA Prop 65); WA		
N/A	sulfate	Cancer		Appen2		
	Mineral oils (untreated and mildly			Maine (IARC; NTP 11th ROC);		
N/A	treated)	Cancer		WA Appen2		
N/A	Mixture of 2,3,4,5-tetrachlorobiphenyl (PCB 61), 2,2',4,5,5'-octachlorobiphenyl (PCB 101) and 2,2',3,3',4,4',5,5'-octachlorobiphenyl (PCB 194)	Endocrine system		Maine (EU Endocrine Disruptor); WA Appen2		
N/A	PBBs = Brominated Flame retardants = PBB (mixed group of 209 Congeners)	Endocrine system		Maine (EU Endocrine Disruptor)		
N/A	PBB (mixed group or 209 congeners)	Endocrine system		Maine (CA Prop 65; NTP 11th		
N/A	Polybrominated biphenyls	Cancer, Development		ROC); WA Appen2		
N/A	salts of 2-naphthylamine	Cancer		Maine (EU Carcinogen)		
N/A	Bitumens, extracts of steam-refined and air refined	Cancer		Maine (CA Prop 65); WA Appen2		
N/A	Carbon-black extracts	Cancer		Maine (CA Prop 65); WA Appen2		
N/A	Diesel engine exhaust	Cancer		Maine (CA Prop 65; IARC; IRIS); WA Appen2		
N/A	Diesel exhaust particulates	Cancer, Respiratory system		Maine (NTP 11th ROC); WA Appen2; Minnesota HRV		
N1 / A	Gasoline engine exhaust	C		Maine (CA Prop 65); WA		
N/A	(condensates/extracts)	Cancer		Appen2		
N/A	Silica, crystalline (respirable size)	Cancer		Maine (CA Prop 65; NTP 11th ROC); WA Appen2		
N/A	Soots	Cancer		Maine (IARC; NTP 11th ROC); WA Appen2		
	Soots, tars, and mineral oils (untreated			Masing (CA Brow CE) 14/A		
N. / A	and mildly treated oils and used engine	Canada		Maine (CA Prop 65); WA		
N/A	oils)	Cancer		Appen2		



CAS Number	Chemical Name	Health endpoint(s)	Persistent, Bioaccumulative, Toxic (PBT) or very Persistent, very Bioaccumulative (vPvB)	Source(s)	Use example(s) or class	HPV (2006 and 3 of 4 years) <sup>1,2</sup>
				Maine (CA Prop 65; IARC); WA		
N/A	Talc containing asbestiform fibers	Cancer		Appen2		
				Maine (NTP 11th ROC); WA		
N/A	Environmental tobacco smoke	Cancer, Development		Appen2		
	Zirconium Aluminosilicate Refractory			REACH Substances of Very High		
N/A	Ceramic Fibers	Cancer		Concern		
				EU Category 1 Endocrine		
N/A	triphenyltin (group)	Endocrine system		disruptor	fungicide, insecticide	

Reporting of inorganic chemicals was not required prior to the 2006 Inventory Update Reporting.

Minnesota Department of Health, Health Risk Aassessment Unit, Toxic Free Kids Program



<sup>&</sup>lt;sup>1</sup> A record with "x (2006)" in the column " HPV (2006 and 3 of 4 years)" indicates an inorganic chemical reported at 1 million or more pounds on the 2006 Inventory Update Reporting.

<sup>&</sup>lt;sup>2</sup>HPV status reflects analysis from 2010. EPA's 2012 Chemical Data Reporting information not yet analyzed