

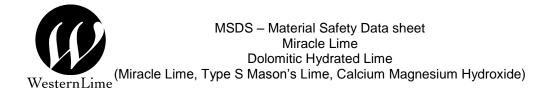
MSDS – Material Safety Data sheet Miracle Lime Windle Line Dolomitic Hydrated Lime WesternLime (Miracle Lime, Type S Mason's Lime, Calcium Magnesium Hydroxide)

WesternLine -1-				
I. Product and Company	Reviewed on 6/22/09			
	estern Lime Corporation Informati	on: 800-433-0036		
20	06 N. 6 th Avenue			
W	est Bend, WI 53095			
Chemical Name	Chemical Family	Chemical Formula		
Calcium Magnesium	Alkaline earth hydroxide	$Ca(OH)_2 + Mg(OH)_2$		
Hydroxide				
Molecular weight	Trade Names/Synonyms	Material Use		
Ca(OH) ₂ = 74.10	Dolomitic Hydrated Lime, Miracle	Masonry construction, pH		
$Mg(OH)_2 = 58.34$	Lime, Type S Masons Lime	adjustment, soil/water treatment		

II. Composition and Inform	nation on Ingredie	ents	
Component	CAS#	Exposure Limits	% by weight
Calcium Hydroxide	1305-62-0	OSHA PEL: 5mg/m3 ACGIH TLV: 5 mg/m3	>58%
Magnesium Hydroxide	1309-42-8	OSHA PEL: n/a ACGIH TLV: n/a	>38%
Dolomite	16389-88-1	OSHA PEL: 15 mg/m3 ACGIH TLV: 10 mg/m3	<1.0%
Magnesium Oxide	1309-48-4	OSHA PEL: 10 mg/m3 ACGIH TLV: 10 mg/m3	<1.0%
Crystalline Silica	OSHA PEL: <u>10 mg/m3</u>		N/A

III. Hazards	Identification
Emergency (Overview: Hydrated Lime is an odorless white or greyish-white granular powder. Contact
can cause irr	ritation to eyes, skin, respiratory system, and gastrointestinal tract.
Eyes:	Contact can cause severe irritation or burning of eyes, including permanent damage.
Skin:	Contact can cause severe irritation or burning of skin, especially in the presence of moisture.
Ingestion:	This product can cause severe irritation or burning of gastro-intestinal tract if swallowed
Inhalation:	This product can cause severe irritation of the respiratory system. Long-term exposure may cause permanent damage. Hydrated Lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or crystobalite. Inhalation of silica can cause a chronic lung disorder, silicosis.
	ditions Aggravated by Exposure: Contact may aggravate disorders of eyes, skin,
gastrointesti	nal tract, and respiratory system.
Potential Env	vironmental Effects: This material is alkaline and if released into water or soil will cause and
increase in it	s pH.

IV. First Aid	Measures		
Eyes:	Immediately flush eyes with large amounts of water for at least 15 minutes. Pull back t	ihe	
Eyes.	eyelid to make sure all the lime dust has been washed out.		
Skin:	Flush exposed area with large amounts of water. Seek medical attention immediately.		
Inhalation:	Remove to fresh air. Seek medical attention if necessary. If breathing has stopped, give		
initialation.	artificial respiration.		
	Give large quantities of water or fruit juice. Do not induct vomiting. Seek medical		
Ingestion:	attention immediately. Never give anything by mouth if victim is rapidly losing		
	consciousness or is unconscious or convulsing.		
Note	e to Physicians: Provide general supportive measures and treat symptomatically.		



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V. Fire Fighting Measures		
Fire Hazards:	Hydrated Lime is not combu not an explosion hazard.	stible or flammable. Hydrated Lime is
Hazardous Combustion Products:	None Identified.	
Extinguishing Media:	Use dry chemical fire exting	uisher or water
Fire Fighting Instructions:		om and upwind of fire. Wear full fire- nker gear), and respiratory protection

VI. Accidental Release Measures]
Spill/Leak Procedures:	Use proper protective equipment. Hydrated Lime is a fine powder which can easily be entrained into the air.	
Small Spills:	Wash area with water. Neutra	alize with dilute vinegar solution.
Large Spills:		illed materials. Evacuate area down avoid dust exposure. Store spilled or metal containers.
Containment:	For large spills, as much as po Do not release into sewers or	ossible avoid the generation of dusts. waterways.
Cleanup:		hed with large amounts of water. nated by washing with either a mild detergent and water solution.

VII. Handlin	g and Storage
Handling:	Keep in tightly closed containers. Protect from physical damage. Avoid direct contact with material.
Storage:	Store in a cool, dry and well ventilated location. Do not store near incompatible materials. Keep away from moisture. Do not store or ship in aluminum containers.

VIII. Exposure controls/Pe	ersonal Protection Equipment	
Personal Protective Equipment (PPE)	Wear clean, dry gloves, full length pants over boots, long sleeved shirt buttoned at the neck, head protection and approved eye protection selected for the working conditions.	
Gloves	Gauntlets cuff style	
Respiratory	NIOSH approved filtering anti-dust mask	
Eyes	Tight fitting goggles/glasses with side shield	
Footwear	Resistant to caustics	
Clothing	Fully covering skin	

IX. Physical and chemical properties				
Physical State:	Appearance:	Odor:	Specific Gravity:	
Solid	White powder substance	No Odor	2.4 – 2.46g/cc	
Boiling Point:	Vapor Pressure:	pH (25° C):	Density (kg/m3):	
5162 F, 2850 C	N/A	Sat Soln CaO: 12.45	450 - 750	
Melting Point:	Vapor Density:	Solubility in Water:	Freezing Point:	
4658 F, 2570 C	N/A	0.125/100 g Sat.soln	2580 C	



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X. Stability and R	eactivity]
Stability:	Chemically stable, but reacts slowly w carbonate.	ith carbon dioxide to form calcium
Incompatibility/ Conditions to avoid:	Hydrated Lime should not be mixed or to the potential for violent reaction and Acids, Reactive Fluorinated Compoun Reactive Powdered Metals, Organic A Compounds, Reactive Phosphorous C	ds, Reactive Brominated Compounds, cid Anhydrides, Nitro-Organic
Hazardous Decomposition Products:	Dolomitic hydrated lime will decompos magnesium oxide, and water	e at 540 C to produce calcium oxide,
Hazardous Polymerization:	None	

XI. Toxicological Information

No LD50/LC50 have been identified for this products components. Hydrated Lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or crystobalite.

XII. Ecological Informa	tion
Ecotoxicity:	Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Environmental Fate:	This material shows no bioaccumulation or food chain toxicity potential.

XIII. Disposal Considerations:

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation Act

XIV. Transportation Information Hydrated Lime is not classified as a hazardous material by DOT when transported.



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XV. Regulatory Information		
EPA Regulations		
RCRA Hazardous Waste Number (40 CFR 261.33)	Not Listed	
RCRA Hazardous Waste Classification (40 CFR 261)	Not Listed	
CERCLA Hazardous Substance (40 CFR 261)	Not Listed	
CERLA Reportable Quantity (RQ)	Not Listed	
SARA 311/312 codes	Not Listed	
Sara Toxic Chemical (40 CFR 372.65)	Not Listed	
SARA EHS (Extremely Hazardous Substance) (40 CFR 355)	Not Listed	
Threshold Planning Quantity (TPQ)	Not Listed	
All components are listed on the USEPA TSCA Inventory List		
OSHA/MSHA Regulations		
Air Contaminant (29 CFR 1910.1000, Table Z-1)	Not Listed	
MSHA	Not Listed	
OSHA Specifically Regulated Substance (29CFR 1910)	Not Listed	
State Regulations: Consult state and local authorities for guidance		
Canadian Environmental Protection Act (CEPA)		
Domestic Substances List	Listed	

XVI. Other Information	on	
HMIS	Health Risks	1
	Flammability	0
	Reactivity	0
	Personal Protection	E
NFPA	Health Hazard	1
	Fire Hazard	0
	Reactivity	0
WHIMS	"E" Corrosive Materials	
Classification	E CONOSIVE Materials	
WHIMS	"D2A" Materials Causing Other toxic effects	
Classification		

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