Rev. Date:5/1/2008

SECTION 1: PRODU	CT AND COMPANY IDENTIFICATION				
Product Name:	Dolomitic Hydrated Lime (Type S)				
Synonym/s:	Dolomitic Hydrate, Hydrated Dolomitic Lime, Calcium Magnesium Hydroxide, Double Hydrated Dolomitic Lime				
Manufacturer:	US Operations: Chemical Lime Co. 3700 Hulen St. Fort Worth, TX 76107 817-732-8164	Canadian Operations: Chemical Lime Co. of Canada Inc. 20302-102B Ave. Langley, BC V1M 3H1 604-888-4333			
Emergency Phone:	Chemtrec 1-800-424-9300				
Chemical Name: Chemical Family: Chemical Formula:	Calcium Magnesium Hydroxide Alkaline Earth Hydroxide Ca(OH) ₂ -Mg(OH) ₂	WHMIS Classification: D2A, E			
Product Use/s:	Masonry Mortar, Plaster, Stucco, Lime Wash, Water treatment, pH Adjustment, Construction				
Prepared By:	Chemical Lime Co. R&D/Technical Services, KSA				

Ingredient	CAS	OSHA PEL, TWA 8/40h (mg/m3)	ACGIH TLV, TWA 8/40h (mg/m3)	NIOSH REL, TWA 8/40h (mg/m3)	NIOSH IDLH (mg/m3)	Conc. (%)
Calcium Hydroxide, Ca(OH)₂ (Hydrated Lime)	1305-62-0	15 (total dust) 5 (respirable)	5	5	N.A.	> 50
Magnesium Hydroxide, Mg(OH) ₂ (Brucite)	1309-42-8	N.A.	N.A.	N.A.	N.A.	> 35
Magnesium Oxide, MgO (Periclase)	1309-48-4	10	10	N.A.	N.A.	< 5
Calcium Carbonate, CaCO ₃ (Limestone)	1317-65-3 (471-34-1)	15 (total dust) 5 (respirable)	10	10 (total dust) 5 (respirable)	N.A.	< 3
Crystalline Silica, SiO ₂ (Quartz)	14808-60-7	10/(SiO2% + 2) (respirable)	0.025 (respirable)	0.05 (respirable)	50	< 2



OSHA Regulatory Status: This material is subject to 29 CFR 1910.1200 (Hazard Communication).



Rev. Date:5/1/2008

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Dolomitic Hydrate is an odorless white or grayish-white powder. Contact can cause

irritation to eyes, skin, respiratory system, and gastrointestinal tract.

Potential Health Effects

Eyes: Contact can cause severe irritation or burning of eyes, including permanent damage.

Skin: Contact can cause irritation of skin.

Ingestion: This product can cause severe irritation of gastrointestinal tract if swallowed.

Inhalation: This product can cause severe irritation of the respiratory system. Long-term exposure may

cause permanent damage. Dolomitic Hydrate is not listed by MSHA, OSHA, or IARC as a carcinogen However, this product may contain trace amounts of crystalline silica in the form of quartz or crystobalite, which has been classified by IARC as a Group I carcinogen to humans when inhaled. Inhalation of silica can also cause a chronic lung disorder,

silicosis.

Medical

Conditions Aggravated

by Exposure: Contact may aggravate disorders of the eyes, skin, gastrointestinal tract, and respiratory

system.

Potential

Environmental Effects: This material is alkaline and if released into water or moist soil will cause an increase in pH.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with generous amounts of water or eye wash solution if water is

unavailable. Pull back eyelid while flushing to ensure that all lime dust has been washed out. Seek medical attention promptly if the initial flushing of the eyes does not remove the

irritant. Do not rub eyes.

Skin: Brush off or remove as much dry lime as possible. Wash exposed area with large amounts

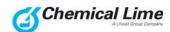
of water. If irritation persists, seek medical attention promptly.

Inhalation: Move victim to fresh air. Seek medical attention. If breathing has stopped, give artificial

respiration.

Ingestion: Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth

unless instructed to do so by medical personnel.



Rev. Date:5/1/2008

SECTION 5: FIRE FIGHTING MEASURES

Fire Hazards: Dolomitic Hydrate is not combustible or flammable. However, hydrate reacts vigorously with

acids, and may release heat sufficient to ignite combustible materials in specific instances.

Dolomitic Hydrate is not considered to be an explosion hazard, although reaction with

acids or other incompatible materials may rupture containers.

Hazardous

Combustion Products: None

Extinguishing Media: Use dry chemical fire extinguisher. Do not use water or halogenated compounds, except

that large amounts of water may be used to deluge small quantities of Dolomitic Hydrate.

Fire

Fighting Instructions: Keep personnel away from and upwind of fire. Avoid skin contact or inhalation of dust. Wear

full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: Do Not use water on bulk material spills. Use proper protective equipment.

Small Spills: Use dry methods to collect spilled materials. Avoid generating dust. Do not clean up with

compressed air. Store collected materials in dry, sealed plastic or non-aluminum metal

containers. Residue on surfaces may be water washed.

Large Spills: Use dry methods to collect spilled materials. Evacuate area downwind of clean-up

operations to minimize dust exposure. Store spilled materials in dry, sealed plastic or

non-aluminum metal containers.

Containment: Minimize dust generation and prevent bulk release to sewers or waterways.

Clean-up: Residual amounts of material can be flushed with large amounts of water. Equipment can

be washed with either a mild vinegar and water solution, or detergent and water.

SECTION 7: HANDLING AND STORAGE

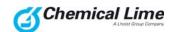
Handling: Keep in tightly closed plastic or non-aluminum metal containers. Protect containers from

physical damage. Avoid direct skin contact with the material.

Storage: Store in a cool, dry, and well-ventilated location. Do not store near acids or other

incompatible materials. Keep away from moisture. Do not store or ship in aluminum

containers.



Rev. Date:5/1/2008

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide ventilation adequate to maintain PELs.

Respiratory Protection: Use NIOSH/MSHA approved respirators if airborne concentration exceeds PELs.

Skin Protection: Use appropriate gloves and footwear to prevent skin contact. Clothing should fully cover

arms and legs. Should lime get inside clothing or gloves, remove the clothing and the lime

promptly.

Eye Protection: Use safety glasses with side shields or safety goggles. Contact lenses should not be worn

when working with lime products.

Other: Eye wash fountain/stations and emergency showers should be available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES					
Appearance:	Odor:	Physical State:			
White or grayish-white powder	Odorless	Solid			
Boiling Point (°C/°F):	Melting Point (°C/°F):	Specific Gravity			
2850 / 5162	dec 580 / 1076	(Apparent) g/cc:	N.A.		
		(True) g/cc:	2.4 - 2.6		
Vapor Pressure (mm Hg):	Vapor Density:	Evaporation Rate:			
N.A.	N.A.	N.A.			
Solubility in Water	pH (25°C/77°F):				
Slightly soluble in water.	12.4				

SECTION 10: STABILITY AND REACTIVITY

Stability: Chemically stable, but slowly reacts with carbon dioxide to form calcium magnesium

carbonate. See also Incompatibility below.

Incompatibility/

Conditions to Avoid: Dolomitic Hydrate should not be mixed or stored with the following materials, due to the

potential for vigorous reaction and release of heat:

Acids (unless in a controlled process)	Organic Acid Anhydrides
Reactive Fluoridated Compounds	Nitro-Organic Compounds
Reactive Brominated Compounds	Reactive Phosphorous Compounds
Reactive Powdered Metals	Interhalogenated Compounds

Hazardous Decomposition

Products: None

Hazardous Polymerization: None



Rev. Date:5/1/2008

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

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 in high

concentrations.

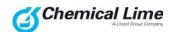
Environmental Fate: This material shows no bioaccumulation effect or food chain concentration toxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the U.S. Resource Conservation and Recovery Act (RCRA).

SECTION 14: TRANSPORTATION INFORMATION

Dolomitic Hydrate is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.



Rev. Date:5/1/2008

SECTION 15: REGULATORY INFORMATION

U.S. EPA Regulations: RCRA Hazardous Waste Number (40 CFR 261.33): not listed

RCRA Hazardous Waste Classification (40 CFR 261): not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001;

CWA, Sec. 311(b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA 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 chemical ingredients are listed on the USEPA TSCA Inventory List.

OSHA/MSHA

Regulations: Air Contaminant (29 CRF 1910.1000, Table Z-1, Z-1-A): 5mg/M³ TWA-8

MSHA: not listed

OSHA Specifically Regulated Substance (29 CFR 1910): not listed

State Regulations: Consult state and local authorities for guidance. Components found in this product may

contain trace amounts of inherent naturally occurring elements (such as, but not limited to

arsenic and cadmium) that may be regulated.

Canada: WHMIS Classification: "D2A" Materials Causing Other Toxic Effects

WHMIS Classification: "E" Corrosive Materials (listed due to corrosive effect on aluminum)

Canada NDSL: Listed

NFPA Hazard Class:

Health: 1

Flammability: 0

Reactivity: 0

HMIS Hazard Class:

Health: 1

Flammability: 0

Reactivity: 0

Personal Protection: E







SECTION 16: OTHER INFORMATION

Prepared By: Chemical Lime Company, R&D/Technical Services, KSA

Chemical Lime Company provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must consult their own technical and legal advisors and/ or exercise their own judgment in determining its appropriateness for a particular purpose. Chemical Lime Company makes no representations or warranties, either express or implied, including without limitation and warranties of merchantability or fitness for a particular purpose with respect to the information set forth herein or the product(s) to which the information refers. Accordingly, Chemical Lime Company will not be responsible or liable for any claims, losses or damages resulting from the use of or reliance upon or failure to use this information.

