

MATERIAL SAFETY DATA SHEET

CECTION		DDODUOT AND		INFORMATION
	. (1	
OLCHON I	· CHEIMICAL	I NODUCI AND	OUIVII AIVI	

Material Name / Identifier: **DOLOMITIC HYDRATED LIME**

WHMIS CLASS E : CORROSIVE MATERIAL

MANUFACTURER'S AND SUPPLIER'S NAME:

EMERGENCY TEL. No

GRAYMONT DOLIME (OH) INC.

21880 West State Route163, Genoa, Ohio 43430-0158 (800) 537-4489

Chemical Name

Chemical Family

Chemical Formula

Dolomitic hydrated lime

Alkaline earth hydroxide

Complex mixture - mostly Ca(OH)₂ and Mg(OH)₂ or MgO

Molecular Weight

Material Use

 $Ca(OH)_2 = 74.10, Mg(OH)_2 = 58.34, MgO = 40.32$

Neutralization, Flocculation, Stabilization, Polishing, Masonry Mortar, Plaster, Stucco, Fresco Paints and Limewash

PRODUCT NAME	FORMULA	CAS#
BONDCRETE® Mason's Lime	CaMg(OH)₄	39445-23-3
Graymont Dolomitic Hydrated Agricultural Lime	Ca(OH)₂MgO	58398-71-3
Graymont Dolomitic Hydrated Lime	Ca(OH)₂MgO	58398-71-3
Graymont Dolomitic Spray Lime	CaMg(OH)₄	39445-23-3
GRAND PRIZE® Finish Lime	Ca(OH)₂MgO	58398-71-3
HI-MAG-CHEM [®] Hydrate	Ca(OH)₂MgO	58398-71-3
IVORY® Autoclaved Finish Lime	CaMg(OH)₄	39445-23-3
KEMIDOL® Hydrate	Ca(OH)₂MgO	58398-71-3
KEMIDOL® Superhydrate	CaMg(OH)₄	39445-23-3
LIMOID [®] Type "N" Hydrate	Ca(OH)₂MgO	58398-71-3
LIMOID [®] Type "S" Hydrate	CaMg(OH)₄	39445-23-3
MORTASEAL® Autoclaved Mason's Lime	CaMg(OH)₄	39445-23-3
SNOWDRIFT® Autoclaved Finish Lime	CaMg(OH)₄	39445-23-3
SUPER LIMOID® Agricultural Hydrated Lime	Ca(OH)₂MgO	58398-71-3
SUPER LIMOID® Mason's Hydrated Lime Type "S"	CaMg(OH)₄	39445-23-3
SUPER LIMOID [®] Mason's Hydrated Lime Type "SA"	CaMg(OH)₄	39445-23-3

SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS							
Hazardous	Hazardous Approximate C.A.S. Exposure limits						
Ingredients	Concentration (% by weight)	Number			(mg/m ³)		
			OSHA	ACGIH	RQMT	NIOSH	NIOSH
			PEL	TLV	OEL	REL	IDLH
(Complex Mixture)			(TWA) 8/40h	(TWA) 8/40h	(TWA) 8/40h	(TWA) 10/40h	
Calcium hydroxide	55 - 60	1305-62-0	5	5	5	Not	Not
_						available	available
Magnesium hydroxide	0 - 40	1309-42-8	Not	Not	Not	Not	Not
			available	available	available	available	available
Magnesium Oxide	0 - 40	1309-48-4	15	10	10	Not	750
						available	
Crystalline Silica,	> 0.1	14808-60-7	10/(%SiO ₂)+2	0.1	0.1	0.05	50
Quartz			(respirable	(respirable	(respirable	(respirable	
			silica dust)	silica dust)	silica dust)	free silica)	

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES						
Physical State Gas □ Liquid □ Solid ☑	Odor and Appearance No odor – Fine v	vhite powder	Odor Threshold (p.p.m.) Not applicable	Specific Gravity 2.2 – 2.6		
Vapor Pressure (mm)	Vapor Density (Air = 1)	Evaporation Rate	Boiling Point (°C)	Freezing Point (°C)		
Not applicable	Not applicable	Not applicable	Not available	Not available		
Solubility in Water (20°C)	Volatiles (% by volume)	pH (25 °C)	Density (kg/m³)	Coefficient of water/oil distribution		
0.1g/100g Sat.soln	Not applicable	Sat. soln Ca(OH)₂ 12.45	400 - 650	Not applicable		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA					
Flammabi	lity	If yes, under			
Yes □	No ☑	which conditions:			
Extinguish	ning Media				
Dolomitic Hydrated Lime does not burn. Use extinguishing media appropriate to surrounding fire conditions.					
Special Fire Fighting Procedures					
Not applicable					

SECTION IV - FIRE AND EXPLOSION HAZARD DATA CONTINUED						
Flash point (°C) and Method	Upper flammable limit	nit (% by volume)		er flammable limit (% by volume)		
Not applicable	Not ap	plicable		Not applicable		
Auto Ignition Temperature (°C)	TDG Flammability Cla	TDG Flammability Classification		Hazardous Combustion Products		
Not applicable	Non-fla	Non-flammable		None		
Dangerous Combustion Products None						
EXPLOSION DATA						
Sensitivity to Chemical Impact	Rate of Burning	Explosive Power		Sensitivity to Static Discharge		
Not applicable	Not applicable	Not applicable		Not applicable		

SECTION V - REACTIVITY DATA				
Chemical Stability Yes □ No ☑	If no, under which conditions?	Absorbs carbon dioxide in the air to form calcium and magnesium carbonate.		
Incompatibility to ot Yes ☑ No □	her substances If so, which ones?	Boron tri-fluoride, chlorine tri-fluoride, fluorine, hydrogen fluoride, phosphorus pentoxide; and acids (violent reaction with generating heat and possible explosion in confined area).		
Reactivity Yes ☑ No □	If so, under which conditions?	Reacts violently with strong acids. Reacts chemically with acids and many other compounds and chemical elements to form calcium based compounds. Explosive when mixed with nitro organic compounds.		
Hazardous Decomposition Products		Thermal decomposition at 540°C will produce calcium oxide and water.		
Hazardous Polymerization Products		Will not occur.		

SECTION VI - TOXICOLOGICAL INFORMATION							
Route of Entry							
☑ Skin Contact	□ Skin Absorption	☑ Eye Contact	☑ Acute Inhalation □ Chronic Inhalation	☑ Ingestion			
Effects of Acute	Exposure to Product						
Skin Mucous and skin corrosion, removes natural skin oils.							

SECTION VI - TOXICOLOGICAL INFORMATION CONTINUED Eyes Severe eye irritation, intense watering of the eyes, possible lesions, possible blindness when exposed for prolonged period. Eye-Rabbit-10mg/ 24 h - Severe. Inhalation If inhaled in form of dust, irritation of breathing passages, cough. Ingestion If ingested: pain, vomiting blood, diarrhea, collapse, drop in blood pressure (indicates perforation of esophagus or stomach). Effects of Chronic Exposure to Product Contact dermatitis LD₅₀ of Product (Specify Species and Route) Irritancy of Product Exposure limits of Product Not available Severe to moist tissues Not available LC₅₀ of Product (Specify Species) Sensitization to Product Synergistic materials Not available None None reported ☑ Carcinogenicity □ Reproductive effects □ Tératogenicity □ Mutagenicity Dolomitic Hydrated Lime is not listed on the MSHA, OSHA or IARC lists of carcinogens. However, hydrated lime could contain crystalline silica, which inhaled in the form of quartz or crystobalite from occupational sources, is classified by IARC as (Group 1) carcinogenic to humans.

SECTION VII - PREVENTIVE MEASURES						
Personal Protective Equ	ipment (PPE)	buttoned at the	gloves, full length pants over bo neck, head protection and appro working conditions.	· · · · · · · · · · · · · · · · · · ·		
Gloves (Specify)	Respiratory (S	pecify)	Eyes (Specify)	Footwear (Specify)		
Gauntlets Cuff style If dust loading exceeds PEL use NIOSH approved filtering anti-dust mask		Tight fitting goggles with side shields	Resistant to caustics			
Clothing (Specify)			Other (Specify)			
Fully covering skin		Evaluate degree of exposencessary. After handling shower. If exposed daily, us base creme etc. to preparticularly neck, face and we	lime, employees must e oil, Vaseline, silicone otect exposed skin,			

SECTION VII - PREVENTIVE MEASURES CONTINUED

Engineering Controls (e.g. ventilation, enclosed process, specify)

Enclose dust sources; use exhaust ventilation (dust collector) at handling points, keep levels below Max. Concentration Permitted.

Leak and Spill Procedure

Limit access to trained personnel. Use industrial vacuums for large spills. Ventilate area.

Waste Disposal

Transport to disposal area or bury. Review Federal, Provincial and local Environmental regulations.

Handling Procedures and Equipment

Avoid skin and eye contact. Minimize dust generation. Wear protective goggles and in cases of insufficient ventilation, use anti-dust mask. An eye wash station and safety shower should be readily available where this material or its water dispersions are used.

Storage Requirements

Keep tightly closed containers in a cool, dry and well-ventilated area, away from acids. Keep out of reach of children.

Special Shipment Information

Calcium Hydroxide is neither regulated by the Transportation of Dangerous Goods (TDG) Regulations (Canada) nor the Hazardous Materials Regulations (USA).

SECTION VIII - FIRST AID MEASURES

Skin

Carefully and gently brush the contaminated body surfaces in order to remove all traces of lime. Use a brush, cloth or gloves. Remove all lime-contaminated clothing. Rinse contaminated area with lukewarm water for 15 to 20 minutes. Consult a physician if exposed area is large or if irritation persists.

Eyes

Immediately rinse contaminated eye(s) with gently running lukewarm water for 15 to 20 minutes. In all cases, immediately contact a physician.

Inhalation

Move source of dust or move victim to fresh air. Obtain medical attention immediately. If victim does not breathe, give artificial respiration. Contact a physician immediately.

SECTION VIII - FIRST AID MEASURES CONTINUED

Ingestion

If victim is conscious, give 300 ml (10 oz) of water, followed by diluted vinegar (1 part vinegar, 2 parts water) or fruit juice to neutralize the alkali. Do not induce vomiting. Contact a physician immediately.

General Advise

Consult a physician for all exposures except minor instances of inhalation.

SECTION IX - REGULATORY INFORMATION

Regulatory Listings Reviewed:

Each component/ingredient of this product has been reviewed against the following regulatory listings:

- CERCLA / SARA section 302 Extremely Hazardous Substance List.
- CERCLA / SARA Title III section 304- Hazardous Substance and RQ List.
- SARA Title III section 313 Toxic Chemical List.

Component Dolomitic Hydrated Lime does not appear on any of the above regulatory listings.

SARA Title III Section 311/312 - Hazard Categories.

This product is regulated under CFR 1910.1200 (OSHA Hazard Communication) as Immediate (Acute) Health Hazards - Corrosive.

California Proposition 65

Component Dolomitic Hydrated Lime does not appear on the above regulatory listing. This product may contain small amounts of crystalline silica. Silica, crystalline (Airborne particles of respirable size) is regulated under California's Safe Drinking Water and Toxic Enforcement Act of 1986. (Proposition 65)

Transportation - Hazardous Materials Regulations (USA) & Transportation of Dangerous Goods (TDG) Regulations (Can). **Dolomitic Hydrated Lime does not appear on the above regulatory listings**

Canadian Environmental Protection Act (CEPA) – Domestic Substances List (DSL).

Dolomitic Hydrated Lime appears on the above regulatory listing.

SECTION X - OTHER INFORMATION (1) Fire hazard Health Risks Hazardous materials National Fire Protection Identification System Association (U.S.) Health **(**0) Flammability Reactivity Hazard (1) Reactivity Specific hazard Personal Protection **(E)** WHMIS Classification: "E" Corrosive Materials. WHMIS Classification: "D2A" Materials causing other toxic effects.

SECTION X - OTHER INFORMATION

Symbol:



Symbol:



Additional Information/Comments:

The technical data contained herein is given as information only and is believed to be reliable.

GRAYMONT makes no guarantee of results and assumes no obligation or liability in connection therewith.

Sources Used:

NFPA, NLA, TDG, CSST, (LSRO-FASEB), Hazardous Products Act, Environment Canada, Enviroguide, OSHA, MSHA, ACGIH, IARC, NIOSH, CFR, NTP.

Prepared by:	Telephone number	Date
Technical Services		July 2001
GRAYMONT (QC) INC.	(450) 449-2262	
GRAYMONT (WESTERN US) INC	(801) 264-6879	