


1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: LIME
Synonyms: Hydrated Lime, Slacked Lime, Calcium Hydroxide
Intended use: Water treatment, Sugar refining, Leather tanning, Road construction, Landscaping
Uses Advised Against: None known.
Company Identification: DPC Industries, Inc.
DPC Enterprises, LP
DXI Industries, Inc.
DX Terminals
PO Box 24600
Houston, TX 77229-4600

Emergency
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. (281) 457-4888
www.dxgroup.com

2. Hazard identification of the product

Health hazards	Causes skin irritation. Causes serious eye damage. May cause to respiratory irritation.	Category 2 Category 1 Category 2
Label elements Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.		
		
Signal Word	Danger	
Hazard Statements	Causes skin irritation. Causes serious eye damage. May cause respiratory tract irritation.	
Precautionary Statements		
Prevention	Do not breathe dust/ mist / vapors / spray. Wear protective clothing, gloves, safety glasses/goggles when handling. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.	
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Immediately call POISON CENTER or doctor. IF ON SKIN: Wash with plenty of soap and water. Remove all contaminated clothing. Rinse skin with water / shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep n comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor / physician.	
Storage	Any contact with air and moisture should be avoided. Keep away from acids, significant quantities of paper, straw, and nitro compounds. Keep out of reach of children. Do not use aluminum for transport or storage if there is a risk of contact with water.	
Disposal	Dispose of contents / container in accordance with local / national regulations.	

3. Composition/information on ingredients

Substance with a workplace exposure limit.
Synonyms: Hydrated Lime, Slacked Lime, Calcium Hydroxide

Ingredient	CAS Number	Weight %
Calcium hydroxide	1305-62-0	75 - 100

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4. First aid measures

Description of first aid measures

General	Never give anything by mouth to an unconscious person. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention.
Eyes	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing. Get medical advice / attention.
Skin	Wash skin thoroughly with soap and water. Remove contaminated clothing and wash before re-use. Call physician if irritation persists.
Ingestion	If the person is conscious, have them drink water or milk. Do NOT induce vomiting. Contact a physician immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed

Overview	May be irritating to eyes, skin, respiratory system, gastrointestinal tract or mucous membranes especially with prolonged exposure. There is a risk of serious damage to eyes. Calcium hydroxide powder presents an inhalation.
Indication of immediate medical attention and special treatment needed	Dry/sore throat, coughing, redness/irritation of skin and eyes. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media	Use extinguishing agent suitable for type of surrounding fire.
Unsuitable extinguishing media	Do not use water jet.
Special hazards arising from the substance or mixture	No hazardous decomposition data available.
Advice for fire-fighters	Wear positive pressure, self-contained breathing apparatus, (SCBA) with a full facepiece and protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Evacuate personnel from area. Sweep or vacuum up spilled material and place in container for disposal. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent entry into waterways, sewers, basements or confined areas.
Environmental precautions	Do not allow spills to enter drains or watercourses.
Methods and material for containment and cleaning up	Sweep up or vacuum and place in container for disposal. Keep the material dry if possible. After cleaning, flush area with water. Prevent from entering waterways.

7. Handling and storage

Precautions for safe handling	Handle containers carefully to prevent damage and spillage. Avoid contact with skin and eyes. Wear protective equipment. It is also advisable to have eyewash nearby. Keep dust levels to a minimum. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed.
Conditions for safe storage, including any incompatibilities	Handle containers carefully to prevent damage and spillage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

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8. Exposure controls and personal protection

Occupational exposure limits

CAS No.	Material	Source	Value
1305-62-0	Calcium hydroxide	OSHA	TWA 15 mg/m3 (total); 5 mg/m3 (respirable)
		ACGIH	TWA 5 mg/m3
		NIOSH	TWA 5 mg/m3

Individual protection measures, such as personal protective equipment

Respiratory	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
Eyes	Wear safety glasses with side shields or safety goggles to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical impervious gloves. Emergency eyewash station should be in close proximity.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable, respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance	White to Gray Solid/Powder
Odor	None
Odor threshold	Not Applicable
pH	12.5 (in water)
Melting point / freezing point (°F)	1076
Initial boiling point and boiling range (°F)	Not Available
Flash Point	Not Flammable
Evaporation rate (Ether = 1)	Not Applicable
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Applicable Upper Explosive Limit: Not Applicable
Vapor pressure (Pa)	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	2.2 - 2.4
Solubility in Water	Slight
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature (°C)	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	Not Measured

10. Stability and reactivity

Reactivity	Hazardous polymerization will not occur.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	None expected under normal processing.
Conditions to avoid	Minimize exposure to air and moisture to avoid degradation.
Incompatible materials	Moisture, Acids, Maleic anhydride and nitro-compounds.
Hazardous decomposition products	Caustic fumes of calcium oxide when heated to decomposition.

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11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation LC50, mg/L/2hr
Calcium hydroxide (1305-62-0)	7,340.00 Rat	No data available	No data available

Item	Hazard
Acute Toxicity (mouth)	Not Applicable
Acute Toxicity (skin)	Not Applicable
Acute Toxicity (inhalation)	Exposure to dust may cause respiratory tract irritation.
Skin corrosion/irritation	Chemical burns or irritation of skin may result due to hydrated lime content. Direct, prolonged or repeated contact with skin may cause dermatitis.
Eye damage/irritation	Dust can cause irritation of eyes. Hydrated lime is a strongly alkaline material and is very irritating to eyes.
Sensitization (respiratory)	This product is not reported to have any sensitization effects.
Sensitization (skin)	This product is not reported to have any sensitization effects.
Germ toxicity	Not Applicable
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	This product is not reported to have any reproductive toxicity effects.
Specific target organ systemic toxicity (single exposure)	Not Applicable.
Specific target organ systemic Toxicity (repeated exposure)	Not Applicable.
Aspiration hazard	Not Applicable

12. Ecological information

Aquatic Ecotoxicity

Ingredient	LC50/96 hr fish, mg/l	EC50/48hr crustacea, mg/l	EC50/72hr algae, mg/l
Calcium hydroxide (1305-62-0)	160 Gambusia affinis	Not Available	Not Available

Persistence and degradability	There is no data available on the preparation itself.
Bioaccumulative potential	No data available.
Mobility in soil	Product is slightly water soluble and may disperse in soil..
Results of PBT and vPvB assessment	This product contains no PBT/vPvB chemicals.
Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.
Waste from material	Sweep or vacuum up spilled material and place in container for disposal. The waste determination should be made in discussion between the user and the waste disposal company.
Container Management	Empty containers or liners may retain some product residues. Dispose of contents/container in accordance with local / national regulations.

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14. Transport information

Transport hazard class(es)	
DOT (Domestic Surface Transportation)	
DOT Proper Shipping Name:	Not Regulated
DOT Hazard Class	Not Applicable
DOT Label:	None
UN / NA Number:	Not Applicable
DOT Packing Group:	Not Applicable
CERCLA/DOT RQ:	Not Applicable
Environmental hazards:	IMDG: Marine Pollutant: No
Special precautions for user:	Not Applicable

15. Regulatory information

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.	
US EPA Tier II Hazards:	Fire:	No
	Sudden Release of Pressure:	No
	Reactive:	No
	Immediate (Acute):	Yes
	Delayed (Chronic):	No
SARA 302 Extremely Hazardous Substance:		No
SARA 311/312 Chemicals :		Calcium Hydroxide
SARA 313 (TRI)		No
CAA Section 112 Hazardous Air Pollutant		No
CAA Section 112R Risk Management Plan		No
State Regulations:	N.J. RTK Substances (>1%)	Listed
	Penn RTK Substances (>1%)	Listed
	California Prop 65	Listed

16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.