

VIGYAN LIME

G-37 RACE COURSE DEHRA DUN - 248 001

QUALITY ASSURANCE DEPARTMENT MATERIAL SAFETY DATA SHEET

PHYSICAL AND CHEMICAL PROPERTIES :

Technical Name of Material	:	CALCIUM HYDROXIDE
Common Name	:	HYDRATED LIME / SLAKED LIME
CAS No.	:	1305-62-0
EINECS No.	:	215-137-3
H.S. Code	:	25222000 / 28259040
Molecular Formula	:	Ca(OH) ₂
Molecular Weight	:	74.09
Physical State	:	POWDER
Appearance	:	WHITE
Odor	:	ODOURLESS
pH	:	12.4 (SAT. SOLN. @ 25OC)
Boiling Point	:	DECOMPOSES
Freezing/Melting Point	:	580° C
Solubility in water	:	SOLUBLE
Specific Gravity/Density	:	2.2400 G/CM ³ / 25-35 LB./CU. FT.

SYNONYMS :

Biocalc; Calcium Hydrate; Calcium Dihydroxide; Caustic Lime; Hydrated Lime; Slaked Lime; Kalkhydrate; Lime Milk

HAZARDS IDENTIFICATION :

Danger! Corrosive. Causes eye & skin burns. May cause severe respiratory & digestive tract irritation with possible burns.

Potential Health Effects	
Eye	Contact with liquid or vapor causes severe burns and possible irreversible eye damage. May cause temporary corneal clouding.
Skin	Causes severe skin irritation and burns. Harmful if absorbed in the skin.
Ingestion	Causes gastrointestinal tract burns. May cause circulatory system failure. May cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. Effects may be delayed.

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Inhalation	May cause burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Inhalation may produce burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
Chronic	Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Prolonged or repeated exposure may cause corneal damage and the development of cataracts and glaucoma.

FIRST AID MEASURES :

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do not allow victim to rub or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).
Skin	Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.
Ingestion	Never give anything by mouth to an unconscious person. Get medical aid immediately. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water if milk not available.
Inhalation	Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device/ instrument.
Notes to Physician	Effects may be delayed. Treat symptomatically and supportively.

FIRE FIGHTING MEASURES :

General Information	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is nonflammable. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.
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Extinguishing Media	In case of fire, use carbon dioxide, dry chemical powder or appropriate foam.
NFPA Rating	(Estimated).
Health	3
Flammability	0
Reactivity	0

ACCIDENTAL RELEASE MEASURES :

General Information	Use proper personal protective equipment as indicated in Exposure Controls.
Spills/Leaks	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

HANDLING AND STORAGE :

Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.
Storage	Store in tightly closed container/bag. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Do not exceed 25-30° C.

EXPOSURE CONTROLS, PERSONAL PROTECTION :

Engineering Controls	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
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Personal Protective Equipment	
Eyes	Wear chemical goggles.
Skin	Wear appropriate protective gloves to prevent skin exposure.
Clothing	Wear appropriate protective clothing to prevent skin exposure.
Respirators	A respiratory protection program that meets requirements of Indian Standard must be followed whenever workplace conditions warrant a respirator's use.

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STABILITY AND REACTIVITY :

Chemical Stability	Stable at room temp. in closed containers under normal storage and handling conditions. Readily absorbs carbon dioxide from air to form calcium carbonate
Conditions to Avoid	Dust generation, temperatures above 30 ° C.
Incompatibilities with Other Materials	Phosphorus, maleic anhydride, nitro methane/ ethane/ paraffins/ propane
Hazardous Decomposition Products	Calcium Oxide

DISPOSAL CONSIDERATIONS :

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Indian Standard guidelines for the classification determination are to be followed. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Shipping Name	Lime, Hydrated Lime, Inorganic Calcium, Calcium Hydrate, Calcium Hydroxide.
Packing Media	New HDPE Bags with Polythene Liners (To avoid Hooks or any other sharp instrument or gadgets in the transport storage media).
Sheltering Norms	Material should be well covered to avoid atmospheric air, showers of water and direct sun leading temp. to be more than 30 ° C.

MSDS Creation Date	30/06/2001
Revision #14 Date	01/07/2015

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For Further Information and Emergency Conditions, Please Mail on info@vigyanlime.com or Call on +91-98370-55678