



les matériaux au cœur de la vie™

NATURAL HYDRAULIC LIME

MSDS

Material Safety Data Sheet

CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Natural Hydraulic Lime
Synonyms: LaFarge NHL 3.5, Natural Hydraulic Lime 3.5

Importer Identification: Freedom Cement, LLC
24 East Brookfield Road North Brookfield, MA 01535 (866) 254-7277
(866) 854-8180 Fax

Prepared on 09/11/2014

COMPOSITION/ INFORMATION ON INGREDIENTS

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

CHEMICAL NAME	AMOUNT	CAS NUMBER	OSHA PEL	OSHA PEL	ACGIH TLV
			(ppm) Total Dust	(ppm) Respirable Dust	(ppm) Total Dust
Calcium Oxide	40-70%	1305-78-8	5 mg/m ³	N/A	2 mg/m ³
Calcium Hydroxide	10-30%	1305-62-0	5 mg/m ³	N/A	5 mg/m ³
Calcium Carbonate	10-30%	1317-65-3	5 mg/m ³	N/A	N/A
Aluminum Oxide	0.5-1.5%	1344-28-1	5 mg/m ³	N/A	10 mg/m ³
Crystalline Silica	7-13	14808-60-7	0.1 mg/m ³	N/A	0.025 mg/m ³

HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

Eye Contact: Dust can cause mechanical irritation of eyes. Possible destruction of eye tissue if dust is not washed from the eye.

Skin Contact: Exposure to granular material could cause skin abrasion.

Ingestion: Not considered a normal route of exposure. Is only important if large quantities of the material are swallowed so as to cause blockage.

Inhalation: Exposure to dust generated during the handling or use of the product may irritate eyes, skin, nose, throat and upper respiratory tract. Prolonged or repeated exposure to airborne free crystalline silica can result in lung disease and/or lung cancer.

Medical Conditions which May be Aggravated by Inhalation or Dermal Exposure: Pre-existing eye, skin or upper respiratory and lung diseases may be aggravated by exposure to this product.

Carcinogenic Potential: This product is not listed as a carcinogen by NTP, OSHA, or IARC. It may, however, contain trace amounts of substances listed as carcinogens by these organizations including but not limited to: crystalline silica, hexavalent chromium, lead compounds, mercury compounds, nickel compounds, and possibly other chemicals which may result in exposures which require the following warning pursuant to California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

FIRST AID MEASURES

Eyes: In case of contact, do not rub or scratch your eyes. If eye contact occurs immediately flush eyes with copious amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

Skin: Flush exposed skin with copious amounts of water for at least 15 minutes depending on concentration, amount and duration of exposure. Wash with mild soap and water. Remove all contaminated clothing, including footwear. Call physician if irritation persists.

Ingestion: Do not induce vomiting without professional medical advice. If vomiting occurs spontaneously, lower head to avoid aspiration into lungs. Seek medical attention immediately.

Inhalation of Airborne Dust: Remove to fresh air. Allow the victim to rest in a well ventilated area. Seek medical help if coughing or other symptoms do not subside.

FIRE FIGHTING MEASURES

Flash Point: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

Unusual Fire & Explosion Hazards: None Known

Extinguishing Media: No special instructions

Special fire fighting Procedures: None

Hazardous Combustion Products: None

ACCIDENTAL RELEASE MEASURES

Containment: Avoid handling procedures which disperse dust. Dust contains free crystalline silica. Use water/wet methods when ever mixing materials or cleaning up a spill of the material.

Water Spill: Material is a natural mineral product and will not cause adverse effects to the water system.

HANDLING & STORAGE

Handling: Avoid dust contact with eyes. Wear the appropriate eye protection against dust. Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded. Use good safety and industrial hygiene practices.

Storage: Store in a closed container in a ventilated area away from sources of heat, moisture and incompatible materials.

EXPOSURE CONTROLS/ PERSONAL PROTECTION...

Eye Protection: When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with ingredients.

Skin Protection: Prevention is essential to avoiding potentially severe skin injury. Avoid contact products ingredients. Where prolonged exposure to products might occur, wear impervious clothing and gloves to eliminate skin contact.



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REGULATORY INFORMATION

FEDERAL REGULATORY STATUS

Status under OSHA Hazard Communication Standard, 29 CFR 1910.1200: This product is considered a "hazardous chemical" (because of its health hazard) under this regulation, and should be included in the employer's hazard communication program.

Reportable Quantities Under the Clean Water Act, CERCLA, and EPCRA, 40 CFR 117, 302 and 355: Not listed.

Status Under the Toxic Substances Control Act, 40 CFR 710: All ingredients are listed.

Status under Workplace Hazardous Materials Information System (WHMIS), Canada: This product is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS). Product containing crystalline Silica is classified as D2A and is subject to WHMIS requirements.

OTHER INFORMATION

LABEL REQUIREMENTS

WARNING! Exposure to high dust levels may irritate the skin, eyes, nose, throat or upper respiratory tract. Contact with the eyes or skin can cause irritation.

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS):

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme Protective

Equipment: Safety glasses, gloves

ADDITIONAL INFORMATION

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY FREEDOM CEMENT, LLC, except that the product shall conform to contracted specifications. The information provided herein was believed by Freedom Cement, LLC to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

END OF MSDS

...EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

Ventilation: Use local exhaust or general dilution ventilation to control exposure within applicable limits.

PHYSICAL & CHEMICAL PROPERTIES

Appearance: White to beige powder

Odor: No odor

Physical State: Solid/Powder

Specific Gravity (H2O=1): Not Applicable

pH (in water) (ASTM D 1293-95): 12.3

Solubility in Water: Slight

Vapor Pressure: Not Applicable

Density: Not Applicable

Boiling Point: Not Applicable

Melting Point: Not Applicable

Evaporation Rate: Not Applicable

STABILITY & REACTIVITY

Stability: Stable

Conditions to avoid: Contact with incompatibles.

Hazardous Polymerization: Hazardous polymerization will not occur.

Incompatibility with other materials: Reactive with strong oxidizing agents. Hydrofluoric acid dissolves silica to produce the corrosive gas silicon tetrafluoride. Acids react violently to produce heat.

Hazardous Decomposition: None

TOXICOLOGICAL INFORMATION

Acute Effects: None known.

Chronic Effects / Carcinogenicity: Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IACR states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

ECOLOGICAL INFORMATION

Eco toxicity: This product has no known adverse effect on ecology.

TRANSPORTATION INFORMATION

Hazardous Materials Description/Proper Shipping Name: Not a hazardous material under U.S. Department of Transportation (DOT) regulations.

Hazard Class: N/A

Identification Number: N/A

Required Label Text: N/A

Hazardous Substances/Reportable Quantities: N/A