



# Natural Hydraulic Lime Products—SDS

## Safety and Datasheet

(Complies with OSHA 29 CFR 1910.1200)

### SECTION I: PRODUCT IDENTIFICATION

US Heritage Group  
2900 N. Kearsarge Ave.  
Chicago, IL 60641

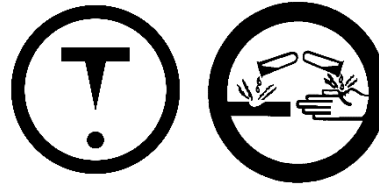
Emergency Telephone Number  
(773)-286-2100

Information Telephone Number  
(773)-286-2100

Revision: February 26, 2016

Product Name:  
NHL 2.0 Mortar  
NHL 2.0 Plaster  
NHL 3.5 Mortar  
NHL 3.5 Plaster  
NHL 5.0 Mortar  
NHL 5.0 Plaster

WHMIS—Classification  
D2A: Materials Causing Other Toxic Effects  
E: Corrosive Material



Product Code:  
HMB, HSB

Product Use: Hydraulic Lime repair mortar and plaster

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	%	PEL (OSHA)	TLV (ACGIH)
			mg/M <sup>3</sup>	mg/M <sup>3</sup>
Lime (Chemical), Hydraulic	85117-09-5	25-50	5	5
Silica Sand, crystalline	14808-60-7	50-75	10	0.025
			%SiO <sub>2+2</sub>	(respirable)

**Other Limits:** National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=0.05 mg/M<sup>3</sup> (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

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### SECTION III - HAZARD IDENTIFICATION

**Route(s) of Entry:** Skin contact, Skin Absorption, Eye Contact, Inhalation, Ingestion

**Acute Exposure:**

Skin	Severe irritation of mucous and skin, removes natural skin oils.
Eyes	Severe eye irritation, intense watering of the eyes, possible lesions, possible blindness when exposed for prolonged period.
Inhalation	If inhaled in form of dust, irritation of breathing passages, coughing, sneezing.
Ingestion	If ingested: pain, vomiting blood, diarrhea, collapse, drop in blood pressure (indicates perforation of esophagus or stomach).

**Chronic Exposure:** Contact Dermatitis. Following repeated or prolonged contact, this product can cause redness, desquamation and fissures. This product may contain trace amounts of crystalline silica.

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### SECTION IV – First Aid Measures

**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**Eyes:** Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalations of large amounts of Hemcrete Binder require immediate medical attention.

**Ingestion:** Do not induce vomiting. If conscious, have the victim drink water followed by diluted vinegar (1 part vinegar, 2 parts water) or fruit juice to neutralize the alkali. Call physician immediately.

**General Advice:** Contact a physician for all exposure except minor instances of skin contact.

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### SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flammability:** Noncombustible and not explosive.

**Auto-ignition Temperature:** Not Applicable

**Flash Points:** Not Applicable

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### SECTION VI – ACCIDENTAL RELEASE MEASURES

If spilled, use dustless methods (vacuum) and place into covered container for disposal (if not contaminated or wet). Use adequate ventilation to keep exposure to airborne contaminants below the exposure limit.

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### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Do not allow water to contact the product until time of use. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended.

### SECTION VIII – EXPOSURE CONTROL MEASURES

**Engineering Controls:** Local exhaust can be used, if necessary, to control airborne dust levels.

**Personal Protection:** The use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact is recommended. Following work, workers should shower with soap and water. Precautions must be observed because burns occur with little warning -- little heat is sensed.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

**Exposure Limits:** Consult local authorities for acceptable exposure limits

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### SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

**Appearance:** Fine gray powder with no distinct odor.

**Specific Gravity:** Not Available

**Boiling Point:** 212° F

**Vapor Density:** Not Available

**Solubility in Water:** Slight

**pH:** 10.5

**Melting Point:** Not Available

**Vapor Pressure:** Not Available

**Evaporation Rate:** Not Available

**Odor:** Not Available

**Volatile Organic Content (VOC):** 0 g/L

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### SECTION X - REACTIVITY DATA

**Stability:** Stable.

**Incompatibility (Materials to Avoid):** Contact with boric oxide, acids, fluorine, and many organic materials.

**Hazardous Decomposition or By-products:** Boric oxide, acids, fluorine, and many organic materials.

**Hazardous Polymerization:** Will Not Occur.

**Condition to Avoid:** Keep sealed until used to preserve product utility.

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### SECTION XI – TOXICOLOGICAL INFORMATION

**Routes of Entry:** Skin Contact, Eye Contact, Ingestion

**Toxicity to Animals:**

LD50: Not Available

LC50: Not Available

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**Chronic Effects on Humans:** Conditions aggravated by exposure include eye disease, skin disorders and Chronic Respiratory conditions.

**Special Remarks on Toxicity:** Not Available

### SECTION XII – ECOLOGICAL INFORMATION

**Ecotoxicity:** Not Available

**BOD5 and COD:** Not Available

**Products of Biodegradation:** Not available

**Toxicity of the Products of Biodegradation:** Not available

**Special Remarks on the Products of Biodegradation:** Not available

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### SECTION XIII – DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Add to water, dilute, and flush to the sewer. (Large amounts may require neutralization by acid.) Follow Federal, State and local regulation. Alternately, waste lime can be used for neutralizing plant acid wastes.

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### SECTION XIV – TRANSPORT INFORMATION

Not hazardous under U.S. DOT and TDG regulations.

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### SECTION XV – OTHER REGULATORY INFORMATION

**US OSHA 29CFR 1910.1200:** Considered hazardous under this regulation and should be included in the employers' hazard communication program

**SARA (Title III) Sections 311 & 312:** Qualifies as a hazardous substance with delayed health effects

**SARA (Title III) Section 313:** Not subject to reporting requirements

**TSCA (May 1997):** Some substances are on the TSCA inventory list

**Federal Hazardous Substances Act:** Is a hazardous substance subject to statutes promulgated under the subject act

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

**Canadian Environmental Protection Act:** Not listed

**Canadian WHMIS Classification:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E- Corrosive Material) and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has

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been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

### SECTION XVI – OTHER INFORMATION

HMIS:

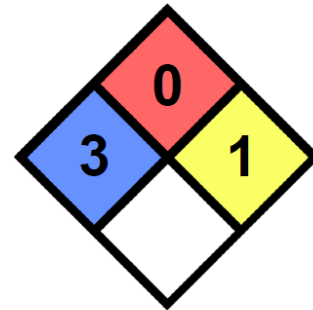
Dispersed Hydrated Lime

**3 HEALTH**  
**0 FLAMMABILITY**  
**1 REACTIVITY**

PERSONAL PROTECTION **D2A, E**

- Materials Causing Other Toxic Effects
- Corrosive Materials

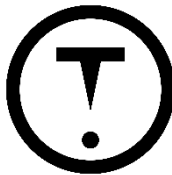
NFPA:



WHMIS—Classification:

“E” Corrosive Materials

Symbol:



WHMIS—Classification:

“D2A” Materials Causing Other Toxic Effects

Symbol:



### Abbreviations:

ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations (Canada)
DOT	Department of Transportation
IARC	International Agency for Research
MSHA	Mine Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicity Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit

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RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TWA	Time-weighted Average
WHMIS	Workplace Hazardous Material Information System

**Last Updated: February 26, 2016**

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express 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 silica contained in our products. END OF MSDS.

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