



Aqua Chemical Supply, Inc.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydrated Lime
Synonyms: Industrial Hydrate

Recommended Uses: Water treatment, steel flux, caustic agent, pH adjustment, acid gas absorption, construction

Manufacturer/Supplier/Distributor:

Carmeuse Lime & Stone

11 Stanwix Street, 21st Floor

Pittsburgh, PA 15222

Emergency telephone number: For emergency assistance involving chemicals call

CHEMTREC day or night at: 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS classification

Physical Hazards

None

Health Hazards

Skin Irritation Category 2

Eye Damage Category 1

Carcinogenicity Category 1A

Specific Target Organ Toxicity – Single Exposure Category 3

GHS Label Elements: Signal Word: Danger

Hazard Statements: Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer through inhalation

Precautionary Statements:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep container tightly closed

Do not breathe dust.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in well-ventilated area

Wear protective gloves, clothing and eye protection



3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical name | % by weight | CAS# |
|---------------------------|-------------|------------|
| Calcium hydroxide | > 85 | 1305-62-0 |
| Silica-crystalline quartz | < 1 | 14808-60-7 |

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with generous amounts of water for at least 15 minutes. Pull back the eyelid to ensure that all lime dust has been washed out. Seek medical attention immediately. Do not rub eyes.

Skin: Wash exposed area with large amounts of water. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth unless instructed to do so by medical personnel.

Inhalation: Move victim to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration

Most Important Symptoms: Irritation of skin, eyes, gastrointestinal tract or respiratory tract.

Immediate medical attention / special treatment?

See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) fire extinguishing media: Use dry chemical fire extinguisher. Do not use water or halogenated compounds, except that large amounts of water may be used to deluge small quantities of this product.

Specific hazards arising from the product

Inhalation, skin or eye contact, can result in serious injury. This product is not combustible or flammable. This product is not considered to be an explosion hazard, although reaction with water or other incompatible materials may rupture containers. When this product is wet, it can be very slippery and can result in a slip hazard.

Hazardous Combustion Products: None.

Special protective equipment and precautions for fire fighters Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA) to prevent inhalation, skin or eye contact.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, emergency procedures: Avoid inhalation, eye and skin contact. Avoid generating airborne dust. Wear appropriate protective clothing as described in section 8.

Methods and materials for containment and clean up: Utilize cleanup methods that minimize generating dust: vacuum. Avoid dry sweeping. Residue on surfaces may be removed with copious amount of water or vinegar.

7. HANDLING AND STORAGE

Safe Handling: Avoid inhalation, skin and eye contact. Avoid generating airborne dust. An eye wash station should be readily available when this product is handled.

Safe Storage: Keep in tightly closed containers. Protect containers from physical damage. Store in a cool, dry, and well-ventilated location. Do not store near incompatible materials (see Section 10 below). Keep away from moisture. Long-term storage in aluminum containers is not recommended, as calcium oxide may corrode aluminum over long periods of time.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Occupational Exposure Limits | OSHA PEL (mg/m ₃) | ACGIH TLV (mg/m ₃) | Ont. Reg. 833 TWAEV (mg/m ₃) |
|------------------------------|--|--------------------------------|--|
| Calcium hydroxide | 15 (total) 5 (respirable) | 5 | 5 |
| silica - crystalline quartz | 30 / (% silica +2) (total) 10 / (% silica +2) (respirable) | 0.025 (respirable) | 0.1 |

Engineering Controls: Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

Specific Eye / Face Protection: Safety glasses with side shields. In windy conditions, or if work activity generates elevated airborne dust levels, dust proof or chemical goggles are recommended. Contact lenses should not be worn.

Specific Skin Protection: When there is a risk of skin contact, wear appropriate clothing and gloves to prevent contact.

Specific Respiratory Protection: If exposure limits are exceeded, an approved particulate respirator, or supplied air respirator, appropriate for the airborne concentrations, should be used. Selection and use of the respiratory protective equipment must be in accordance with applicable regulations and good industrial hygiene practices.

Other: An emergency eye wash fountain and shower are recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|-------------------|
| Appearance: | White powder |
| Odor: | Odorless |
| Odor threshold: | Not Applicable |
| pH at 25 degrees C: | 12.45 |
| Melting Point: | 1076 oF (580 oC) |
| Boiling Point and range: | 5162 oF (2850 oC) |

| | |
|--|--|
| Flash Point: | Not Applicable |
| Evaporation Rate: | Not Applicable |
| Flammability: | Not Applicable |
| Upper/lower flammability or explosive limits | Not Applicable |
| Vapor pressure/density: | Non Volatile |
| Relative density: | 2.24 |
| Solubility: | Slightly soluble in water: 0.2% @ 0 oC. Soluble in acids, glycerin, and sugar solutions |
| Partition coefficient: n-octanol/water | Not applicable |
| Auto-ignition temperature: | Not Available |
| Decomposition temperature: | Not available V |
| Viscosity: | Not Applicable |
| 10. STABILITY AND REACTIVITY | |
| Reactivity: | Reacts with acids to form calcium salts, releasing heat. Reacts with carbon dioxide in air to form calcium carbonate. See also Incompatibility below. |
| Chemical stability: | Stable under normal storage and handling conditions. |
| Possibility of Hazardous Reactions: | See "reactivity" above. |
| Conditions to avoid: | Vicinity of incompatible materials |
| Incompatibility: | This product should not be mixed or stored with the following materials, due to the potential for violent reaction and release of heat acids reactive fluoridated compounds, reactive brominated, compounds, reactive powdered metals, reactive phosphorous compounds, aluminum powder, organic acid anhydrides nitro-organic compounds, inter-halogenated compounds |
| Hazardous decomposition products: | None |
| 11. TOXICOLOGICAL INFORMATION | |
| Likely routes of exposure & symptoms: | |
| Eyes: | Contact can cause severe irritation or burning of eyes, including permanent damage. |
| Skin: | Contact can cause severe irritation or burning of skin, especially in the presence of moisture. |
| Ingestion: | This product can cause severe irritation or burning of gastrointestinal tract if swallowed. |
| Inhalation: | This product can cause severe irritation of the respiratory system. |
| Chronic health effects: | This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, as serious lung disease. |
| Respiratory or skin sensitization: | This material is not known to cause sensitization |
| Germ cell mutagenicity: | No data available. |
| Carcinogenicity: | This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed by IARC as "Carcinogenic to Humans" (Group 1) and "Known to be a Human Carcinogen" by NTP (National Toxicology Program). |
| Reproductive toxicity: | No Data Available. |
| Numerical Measures of Toxicity | |
| Crystalline Silica: | Oral Rat LD50 > 22,500 mg/kg |
| Calcium Hydroxide: | Oral (rat) LD50: 7340 mg/kg |
| 12. ECOLOGICAL INFORMATION | |
| Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations | |
| This material shows no bioaccumulation effect or food chain concentration toxicity. | |
| 13. DISPOSAL CONSIDERATION | |
| Dispose of contents in accordance with federal, state, provincial and local regulations. | |
| 14. TRANSPORT INFORMATION | |
| Not regulated by Department of Transportation, Transport of Dangerous Goods | |
| 15. REGULATORY INFORMATION | |
| CERCLA Hazardous Substances | Not listed |
| SARA Toxic Chemical (40 CFR 372.65) | Not listed |
| SARA Section 302 Extremely Hazardous Substances (40 CFR 355) | Not listed |
| SARA 311/312 | Not listed |
| SARA Section 313 Toxic Chemicals reporting requirements | None |
| Threshold planning quantity (TPQ) | Not listed |
| RCRA Hazardous Waste Classification (40 CFR 261) | Not Classified |
| EPA Toxic Substances Control Act (TSCA) Status | |

All of the components of this product are listed on the TSCA
California Proposition 65 Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.

NFPA ratings Health: 3 Fire: 0 Reactivity: 0

HMIS Ratings Health: 3 Fire: 0 Reactivity: 0 Personal protection: E

OSHA Specifically regulated substance (29 CFR 1910) Not listed

OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A) Listed

MSHA Not listed

Canada DSL Listed

Canadian WHMIS Classification D2A, Materials Causing other toxic effects. E, Corrosive Material



Canada CPR This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation of a Canada and this SDS contains all the required information.

Ontario Regulations Refer to Regulation 845: Designated Substances – Silica

16. OTHER INFORMATION

List of GHS Hazard Statements:

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation.

H350: May cause cancer through inhalation

List of GHS Precautionary Statements:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P233: Keep container tightly closed

P260: Do not breathe dust.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in well-ventilated area

P280: Wear protective gloves, clothing and eye protection

Notice

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Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

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