CARMEUSE AMERICAS

Safety Data Sheet

CALSAFE

Revision date: July 11, 2019

1. Identification

Product Name: CALSAFE

Synonyms: Hi Calcium Lime Slurry; Slurried Lime; Lime Slurry; Carbide Lime Slurry; Acetylene

Lime Slurry; Milk of Lime; Hydrated Lime – Slurry Form.

Recommended Uses: Water treatment; acid neutralization; flue gas treatment, caustic agent, pH

adjustment, acid gas absorption, construction

Manufacturer: Carmeuse Americas

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2. Hazards Identification

GHS Physical Hazards

classification None

Health Hazards

Skin IrritationCategory 2Eye DamageCategory 1CarcinogenicityCategory 1ASpecific Target Organ Toxicity – Single ExposureCategory 3

GHS Label

Elements:

Signal Word: Danger

Hazard Causes skin irritation.

Statements: Causes serious eye damage.

May cause respiratory irritation.

May cause cancer through inhalation

Precautionary Obtain special instructions before use.

Statements: Do not handle until all safety precautions have been read and

understood.

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



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Pictograms:



3. Composition

| Chemical name | % by weight | CAS# |
|---------------------------|-------------|------------|
| Calcium hydroxide | > 25-45 | 1305-62-0 |
| Magnesium hydroxide | < 5 | 1309-42-8 |
| Silica-crystalline quartz | < 2 | 14808-60-7 |
| Water | Balance | 7732-18-5 |

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 Irritation of skin, eyes, gastrointestinal tract or respiratory tract.

Symptoms:

Immediate medical attention / special See first aid information above. Note to Physicians: Provide

treatment? general supportive measures and treat symptomatically.



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5. Fire Fighting Measures

Suitable (and unsuitable) fire extinguishing media:

Do not use halogenated compounds.

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. 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:

Residue on surfaces may be removed with vinegar, citric acid and other weak acids.

7. Handling & 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



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8. Exposure Controls/Personal Protection

Protection:

| | OSHA PEL (mg/m³) | ACGIH TLV (mg/m³) | Ont. Reg. 833 TWAEV (mg/m³) |
|---|------------------------------|----------------------|--------------------------------|
| Calcium hydroxide | 15 (total) 5 (respirable) | 5 | 5 |
| Silica, crystalline quartz, cristobalite and tridymite | 0.05 (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 Safety glasses with side shields. In windy conditions, or if work activity **Protection:**

generates elevated airborne dust levels, dust proof or chemical goggles

are recommended. Contact lenses should not be worn.

Specific Skin When there is a risk of skin contact, wear appropriate clothing and

Protection: gloves to prevent contact.

Specific Respiratory 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.

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9. Physical & Chemical Properties

Appearance: Liquid or suspension, White or grayish white

Odor: Slight Sulfur odor possible

Odor threshold: Not Applicable

pH at 25 degrees C: 12.45

Melting Point: Not Applicable

Boiling Point and range: 5162 °F (2850 °C)

Flash Point: Not Applicable

Evaporation Rate: Not Applicable

Flammability: Not Applicable

Upper/lower flammability or explosive limits Not Applicable

Vapor pressure/density: Non Volatile

Specific gravity 1.1 - 1.4

Solubility: Solids soluble in acids, glycerin, and sugar solutions. Forms

suspension

Partition coefficient: n-octanol/water Not applicable

Auto-ignition temperature: Not Available

Decomposition temperature: Not available, Solids decompose at 900 °C to form CaO.

Viscosity: 500-780 cP



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10. Stability & Reactivity

Reactivity: Reacts with acids to form calcium salts, releasing heat. 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

interhalogenated compounds

Hazardous decomposition products: None



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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 of skin.

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 Considerations

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



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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 ActThe components of this product are each listed on the TSCA

(TSCA) Status Inventory List in the "active" status

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.



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16. Other Information

List of GHS H315: Causes skin irritation

Hazard H318: Causes serious eye damage **Statements:** H335: May cause respiratory irritation.

H350: May cause cancer through inhalation

List of GHS P201: Obtain special instructions before use.

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

Statements: 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

Abbreviations

CERCLA Comprehensive Environmental Response, RCRA Resource Conservation and Recovery Act

Compensation and Liability Act

SARA Superfund Amendments and Reauthorization Act IARC International Agency for Research on Cancer

NTP National Toxicology Program

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