

Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Lime Slurry

Revision Date: January 2024 Version: 3.0/EN

SECTION 1: Identification

1.1. Product identifier

Trade Name

CALSAFE®

Other names / Synonyms

Hi Calcium Lime Slurry; Slurried Lime; Lime Slurry; Carbide Lime Slurry; Acetylene Lime Slurry; Milk of Lime; Hydrated Lime – Slurry Form.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Water treatment; acid neutralization; flue gas treatment, caustic agent, pH adjustment, acid gas absorption, construction

Uses advised against None identified.

1.3. Details of the supplier of the safety data sheet

Company and address

Carmeuse Americas CA PO Box 190 ON N5C 3K5 Ingersoll Canada Phone: (519) 423-6283 Fax: (519) 423-6545 https://www.carmeuse.com/na-en

Emergency telephone number

In an emergency call 911 Infotrac: (800) 535-5053 (24hr/7days a week) See also section 4 "First aid measures".

SECTION 2: Hazard(s) identification

Classified according to WHMIS 2022.

2.1. ▼Classification of the substance or mixture Skin Corr. 1; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage. STOT SE 3; H335, May cause respiratory irritation.

Carc. 1A; H350i, May cause cancer by inhalation.

2.2. Label elements

▼Hazard pictogram(s)



Signal word

Danger

▼Hazard statement(s)

Causes severe skin burns and eye damage. (H314) May cause respiratory irritation. (H335)

May cause cancer by inhalation. (H350i)

Precautionary statement(s)

General

If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)



Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Revision Date: January 2024 Version: 3.0/EN

▼ Prevention

Obtain special instructions before use. (P201)

Do not breathe vapour/mist. (P260)

Use only outdoors or in a well-ventilated area. (P271)

Wear eye protection/protective gloves/protective clothing. (P280)

▼Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . (P303+P361+P353) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Immediately call a POISON CENTER/doctor. (P310)

Storage

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Store locked up. (P405)

▼Disposal

Dispose of contents/container in accordance with local regulation (P501)

▼Hazardous substances

Calcium hydroxide

Silica-crystalline quartz

▼Additional labelling

Restricted to professional users.

2.3. Other hazards

▼Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Water	CAS No.: 7732-18-5	Balance%		
Calcium hydroxide	CAS No.: 1305-62-0	10-42%	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. Other information

Crystalline Silica is reported as total silica and not just the respirable fraction. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: First-aid measures

4.1. Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.



Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Revision Date: January 2024 Version: 3.0/EN

Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Ensure adequate ventilation, especially in confined areas. Avoid inhalation of vapours from spilled material. Contaminated areas may be slippery.

6.2. ▼Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections



Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Revision Date: January 2024 Version: 3.0/EN

See section 13 "Disposal considerations" on handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. ▼Precautions for safe handling

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids reactive fluoridated compounds reactive brominated compounds reactive powdered metals reactive phosphorous compounds Organic acid anhydrides interhalogen compounds

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ALBERTA

Calcium hydroxide Long term exposure limit (8 hours) (mg/m³): 5

Annotations:

3 = Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

BRITISH COLUMBIA

Calcium hydroxide Time-Weighted Average Limit (TWA): 5 mg/m³

OHS Regulation Part 5: Chemical Agents and Biological Agents.

ONTARIO

Calcium hydroxide Time-Weighted Average Limit (TWA): 5 mg/m³

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

QUEBEC Calcium hvdroxide

Long term exposure limit (8 hours) (mg/m³): 5

Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)



Conforms to Hazardous Products Regulations (SOR/2022-272)



Name of the product

Lime Slurry

Revision Date: January 2024 Version: 3.0/EN

SASKATCHEWAN

Calcium hydroxide

Long term exposure limit (8 hours) (mg/m³): 5 Short term exposure limit (15 minutes) (mg/m³): 10

The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.

8.2. ▼Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼Appropriate technical measures

Do not recirculate outlet air that contain the substances.

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

▼Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Wash contaminated clothing before reuse.

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

Туре	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation.			

Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	R
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	Ŷ



Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Lime Slurry

Revision Date: January 2024 Version: 3.0/EN

Hand protection

Material Glove thickness (mm)	Breakthrough time (min.)	Standards	
Cotton/Nitril -	> 240	EN374-2, EN374-3, EN388	
Eye protection			
Type Standard	6		
Safety glasses with side EN166 shields.			
ECTION 9: Physical and chemical pro	perties		
 1. Information on basic physical and Physical state Liquid Suspension in water Colour White, Light gray Odour None Odour threshold (ppm) Not applicable pH - pH in solution 12.4 (%) ▼ Density (g/cm³) - Relative density 1.06-1.38 (20 °C) Kinematic viscosity Testing not relevant or not poss Dynamic viscosity 		duct.	
500-780 mPa.s (40 °C) hase changes Melting point (°C) 0 Boiling point (°C) 100 Vapour pressure 2.3 kPa (20 °C) Relative vapour density 0.62 Decomposition temperature (°C) Not applicable Evaporation rate (n-butylacetate = 1 No data available ata on fire and explosion hazards Flash point (°C) Not applicable Flammability (°C) Not applicable	00)		

Conforms to Hazardous Products Regulations (SOR/2022-272)



Name of the product

Lime Slurry

Revision Date: January 2024 Version: 3.0/EN

Auto-ignition temperature (°C) No data available Explosion limits (% v/v) Not applicable - based on structure Solubility in water Product is a suspended solid in water n-octanol/water coefficient (LogKow) Testing not relevant or not possible due to the nature of the product. Solubility in fat (g/L) Testing not relevant or not possible due to the nature of the product. 9.2. Other information Dust explosion class St0 (No explosion) Evaporation rate (n-butylacetate = 100) No data available Other physical and chemical parameters No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Storage in the open is not recommended.

10.5. Incompatible materials Strong acids reactive fluoridated compounds

reactive brominated compounds reactive powdered metals reactive phosphorous compounds Organic acid anhydrides interhalogen compounds

10.6. ▼Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Product/substance Test method: Species: Route of exposure: Test: Result:	Calcium hydroxide OECD 425 Rat Oral LD50 > 2000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result: Skin corrosion/irritation	Calcium hydroxide OECD 402 Rabbit Dermal LD50 >2500 mg/kg

Causes severe skin burns and eye damage.



Conforms to Hazardous Products Regulations (SOR/2022-272)



Name of the product

Lime Slurry

Revision Date: January 2024 Version: 3.0/EN

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

May cause cancer by inhalation.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

▼Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. ▼Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. ▼Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.



Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Lime Slurry

Revision Date: January 2024 Version: 3.0/EN

	14.1 UN / ID	14.2) UN proper shipping	14.3 nameHazard class(es)	14.4 14.5 Other PG* Env** information:
TDG	-	-	-	
MDG	-	-	-	
ATA	-	-	-	

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

- 14.6. Special precautions for user
 - Not applicable.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- 15.2. ▼Canadian lists
 - VDSL/NDSL
 - Calcium hydroxide is listed

15.4. ▼Restrictions for application

Restricted to professional users. People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

15.5. Demands for specific education

No specific requirements.

Additional information

If this product is sold in retail, it must be delivered with child-resistant fastening.

15.7. Chemical safety assessment

No Sources

Hazardous Products Regulations (SOR/2022-272)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

- H315, Causes skin irritation.
- H318, Causes serious eye damage.
- H335, May cause respiratory irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

- ANSI = American National Standards Institute
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CAS = Chemical Abstracts Service
- DSL = Domestic Substances List

```
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
```

HHNOC = Health Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods



Conforms to Hazardous Products Regulations (SOR/2022-272)

Name of the product

Revision Date: January 2024 Version: 3.0/EN

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NDSL = Non-domestic substances list

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PHNOC = Physical Hazards Not Otherwise Classified

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL = A specific concentration limit.

SOR = Statutory Orders and Regulations

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TDG = Transportation of Dangerous Goods

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

WHIMS = Workplace Hazardous Materials Information System

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

The classification of the mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by WHMIS 2022.

▼ Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en

Disclaimer: The information contained herein is believed to be accurate and reliable as of the date hereof. However, Carmeuse makes no representation, warranty or guarantee as to results or as to the information's accuracy, reliability or completeness. Carmeuse has no liability for any loss or damage that may result from use of the information. Each user is responsible to review this information, satisfy itself as to the information's suitability and completeness, and circulate the information to its employees, customers and other appropriate third parties.