

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Form:	Mixture
Product Name:	Snowbright Hydrate, High Calcium Hydrated Lime
Product Type:	Solid
Recommended Use:	Drilling Fluid Additive, Neutralization, Flocculation, Stabilization, Absorption.
Other Means of Identification:	Hydrated Lime, Calcitic Hydrated Lime, Lime, Slaked lime, Lime Putty, Lime Slurry, Milk of Lime, Calcium Hydroxide.
Supplier:	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
Phone Number:	780-962-9490
Emergency Number:	CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr

Section 2: HAZARD(S) IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Eye Irritation:	Category 1
Carcinogenicity:	Category 1A
Specific Target Organ Toxicity – Single Exposure:	Category 3
Specific Target Organ Toxicity – Repeated Exposure:	Category 1

Hazard Pictograms (GHS)



Signal Word (GHS): Danger

Hazard Statements (GHS): Causes skin irritation
Causes serious eye damage
May cause respiratory irritation
May cause cancer (inhalation)
Causes damage to organs (lungs) through prolonged or repeated exposure

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Precautionary Statements (GHS):

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wash hands, forearms and face thoroughly after handling.
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If exposed or concerned: Get medical advice/attention.
 If on skin: Wash with plenty of water.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation occurs: Get medical advice/attention.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 Call a poison center or doctor if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a poison center or doctor.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other Hazards Which Do Not Result in Classification: No additional information available

Unknown Acute Toxicity: Not applicable

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS
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Substances:	Not applicable		
Name	Chemical Name / Synonyms	Product Identifier	%
Calcium Hydroxide	Calcium hydroxide Calcium dihydroxide Calcium hydroxide (Ca(OH) ₂) Hydrated lime Lime, hydrated CALCIUM HYDROXIDE Slaked lime	CAS No. 1305-62-0	90-100

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Name	Chemical Name / Synonyms	Product Identifier	%
Quartz	Quartz Quartz (SiO ₂) / Silica, crystalline, quartz / Crystalline silica, quartz / alpha-Quartz / Silica, crystalline, alpha-quartz / QUARTZ / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystalline- Alpha quartz / Silica, alpha quartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica) / Silica dust, crystalline / QUARTZ POWDER / Silica, crystalline (quartz)	CAS No. 14808-60-7	0.0001-1

Comments: Crystalline silica has been found in some products at or above detection level 0.1%. Concentration is dependent upon limestone source. Any concentration shown as a range is to protect confidentiality or is due to batch variation. If a generic chemical name is shown and/or the CAS number is not disclosed, the specific chemical identity has been withheld as a trade secret.

Section 4: FIRST-AID MEASURES

First-Aid Measures General:	If exposed or concerned: Get medical advice/attention.
First-Aid Measures After Inhalation:	If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-Aid Measures After Skin Contact:	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-Aid Measures After Eye Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-Aid Measures After Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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Most Important Symptoms and Effects (Acute and Delayed):

Symptoms/Effects After Inhalation:	May cause irritation to the respiratory tract.
Symptoms/Effects After Skin Contact:	Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.
Symptoms/Effects After Eye Contact:	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/Effects After Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Symptoms:	May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Immediate Medical Attention and Special Treatment, If Necessary:	Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 5: FIRE-FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media

Suitable Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media:	Do not use water jet.

Specific Hazards Arising from The Chemical

Fire Hazard: None

Special Protective Equipment and Precautions for Fire-Fighters

Protection During Firefighting: Keep upwind of fire. Wear full fire fighting turn-out gear (full bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures:	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
For Non-Emergency Personnel:	No additional information available

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For Emergency Responders: No additional information available

Environmental Precautions: Prevent entry to sewers and public waters

Methods and Material for Containment and Cleaning Up

For Containment: Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning Up: Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Provide ventilation.

Reference to Other Sections: For further information refer to Section 8: "Exposure Controls/Personal Protection".

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Avoid generating dust. Use only outdoors or in a well-ventilated area. The use of compressed air for cleaning clothing, equipment, etc., is not recommended. Good housekeeping is important to prevent accumulation of dust. Wear appropriate PPE (see Section 8).

Hygiene Measures: Wash contaminated clothing before reuse. Always wash hands after handling the product.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep out of the reach of children. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Store in dust-tight, dry, labelled containers. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

High Calcium Hydrated Lime No additional information available

Calcium Hydroxide (1305-62-0)

Canada (Alberta) - Occupational Exposure Limits

OEL TWA 5 mg/m³

Canada (British Columbia) - Occupational Exposure Limits

OEL TWA 5 mg/m³

Canada (Ontario) - Occupational Exposure Limits

OEL TWA 5 mg/m³

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Canada (Quebec) - Occupational Exposure Limits

VEMP (OEL TWA) 5 mg/m³

Calcium Hydroxide (1305-62-0)

Canada (Saskatchewan) - Occupational Exposure Limits

OEL TWA 5 mg/m³

OEL STEL 10 mg/m³

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 5 mg/m³

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA [1] 15 mg/m³ (total dust)
5 mg/m³ (respirable fraction)

USA - NIOSH - Occupational Exposure Limits

NIOSH REL TWA 5 mg/m³

USA - MSHA - Occupational Exposure Limits

MSHA PEL TWA 8/40 h 5 mg/m³

Quartz (14808-60-7)

Canada (Alberta) - Occupational Exposure Limits

Local Name Silica-Crystalline: Quartz

OEL TWA 0.025 mg/m³ (respirable particulate)

Notations and Remarks Carcinogenicity A2

Regulatory Reference Alberta Regulation 191/2021

Canada (British Columbia) - Occupational Exposure Limits

Local Name Silica, Crystalline – alpha quartz

OEL TWA 0.025 mg/m³ (respirable)

Notations and Remarks ACGIH Carcinogenicity category A2; IARC group 1 carcinogen

Regulatory Reference OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)

Canada (Ontario) - Occupational Exposure Limits

OEL TWA 0.1 mg/m³ (designated substances regulation-respirable fraction (Silica, crystalline))

Canada (Quebec) - Occupational Exposure Limits

VEMP (OEL TWA) 0.1 mg/m³ (respirable dust)

Canada (Saskatchewan) - Occupational Exposure Limits

OEL TWA 0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline (Trydimite removed)))

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USA - ACGIH - Occupational Exposure Limits

Local Name	Silica crystalline - quartz
ACGIH OEL TWA	0.025 mg/m ³ (respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
ACGIH Chemical Category	Suspected Human Carcinogen
Regulatory Reference	ACGIH 2022

USA - OSHA - Occupational Exposure Limits

Local Name	Quartz (Total Dust) (Silica: Crystalline)
OSHA PEL TWA [1]	50 µg/m ³ (Respirable crystalline silica)
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA) use formula: (30 mg/m ³ / (%SiO ₂ +2)) for mg/m ³ . CAS No. source: eCFR Table Z-1.
Regulatory Reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

USA - IDLH - Occupational Exposure Limits

IDLH	50 mg/m ³ (respirable dust)
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USA - NIOSH - Occupational Exposure Limits

NIOSH REL TWA	0.05 mg/m ³ (respirable dust)
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USA - MSHA - Occupational Exposure Limits

MSHA PEL TWA 8/40 H	30 mg/m ³ / (%SiO ₂) + 2 mg/m ³ (Total dust) 10 mg/m ³ / (%SiO ₂) + 2 mg/m ³ (Respirable dust)
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Appropriate Engineering Controls: Ensure good ventilation of the workstation. Provide readily accessible eye wash stations and safety showers.

Environmental Exposure Controls: Avoid release to the environment

Individual Protection Measures/Personal Protective Equipment

Hand Protection: Wear suitable gloves resistant to chemical penetration.

Eye Protection: If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other Information: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	Fine powder
Color:	White
Odor:	Sweet soil
Odor Threshold:	No data available
pH:	12.45 saturated solution at 25°C (77°F)
Melting Point:	No data available
Freezing Point:	No data available
Boiling Point:	No data available
Flash Point:	Not applicable
Relative Evaporation Rate (Butylacetate=1):	No data available
Flammability:	No data available
Vapour Pressure:	No data available
Relative Vapour Density at 20°C / 68°F:	Not applicable
Relative Density:	2.3 - 2.4
Solubility:	Water: 0.165 g/100ml at 20°C (68°F)
Partition Coefficient n-octanol/water:	Not applicable
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	540 °C (1004 °F)
Viscosity, Kinematic:	Not applicable
Viscosity, Dynamic:	No data available
Explosive Limits:	Not applicable
Explosive Properties:	No data available
Oxidising Properties:	No data available
Other Information:	No additional information available

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Section 10: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reactions known under conditions of normal use.
Conditions to Avoid:	Incompatible materials
Incompatible Materials:	Oxidizing materials. Acids. Moisture. Reactive materials. Powdered metals. Acid anhydrides. Organic nitro-compounds.
Hazardous Decomposition Products:	None

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

Calcium Hydroxide (1306-62-0)

LD50 Oral Rat 7340 mg/kg

LD50 Dermal Rat > 2500 mg/kg

LC50 Inhalation Rat > 6.04 mg/l/4h

ATE CA (Oral) 7340 mg/kg bodyweight

Skin Corrosion/Irritation: Causes skin irritation
pH: 12.45 saturated solution at 25°C (77°F)

Serious Eye Damage/Irritation: Causes serious eye damage
pH: 12.45 saturated solution at 25°C (77°F)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer if inhaled. Risk of cancer depends on duration and level of exposure.

Quartz (14808-60-7)

IARC Group: 1 – Carcinogenic to humans

National Toxicology Program (NTP) Status: Known human carcinogens

In OSHA Hazard Communication Carcinogen List: Yes

Reproductive Toxicity: Not classified

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STOT – Single Exposure: May cause respiratory irritation

Calcium Hydroxide (1305-62-0)

STOT – Single Exposure: May cause respiratory irritation

STOT – Repeated Exposure: Causes damage to organs through prolonged or repeated exposure

Quartz (14808-60-7)

STOT – Repeated Exposure: Causes damage to organs through prolonged or repeated exposure

Aspiration Hazard: Not classified

High Calcium Hydrated Lime

Viscosity, Kinematic: Not applicable

Symptoms/effects After Inhalation: May cause irritation to the respiratory tract

Symptoms/effects After Skin Contact: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.

Symptoms/effects After Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects After Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Symptoms: May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Other Information: Likely routes of exposure: ingestion, inhalation, skin and eye.

Section 12: ECOLOGICAL INFORMATION

Toxicity

Ecology – General: No known significant effects or critical hazards

Persistence and Degradability

High Calcium Hydrated Lime

Persistence and Degradability: Not established

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Bioaccumulative Potential

High Calcium Hydrated Lime

Partition Coefficient n-octanol/water: Not applicable

Bioaccumulative Potential: Not established

Calcium Hydroxide (1305-62-0)

BCF – Fish [1]: (No bioaccumulation)

Mobility in Soil: No additional information available

Other Adverse Effects

Other Information: No other effects known

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods

Product/Packaging Disposal Recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Section 14: TRANSPORT INFORMATION

In Accordance with DOT / TDG / IMDG / IATA

UN Number: Not regulated for transport

UN Proper Shipping Name

DOT: Not applicable

TDG: Not applicable

IMDG: Not applicable

IATA: Not applicable

Transport Hazard Class(es)

DOT: Not applicable

TDG: Not applicable

IMDG: Not applicable

IATA: Not applicable

Packing Group

DOT: Not applicable

TDG: Not applicable

IMDG: Not applicable

IATA: Not applicable

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Environmental Hazards

Other Information: No supplementary information available

Special Precautions for User

Special Transport Precautions: Do not handle until all safety precautions have been read and understood

DOT: Not data available

TDG: Not data available

IMDG: Not data available

IATA: Not data available

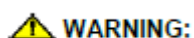
Transport in Bulk According to Annex II of MARPOL 73/78 and The IBC Code: Not applicable

Section 15: REGULATORY INFORMATION

US Federal Regulations: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

International Regulations: No additional information available

US State Regulations:



WARNING: This product can expose you to Silica, respirable crystalline, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component

Calcium Hydroxide (1305-62-0)

Quartz (14808-60-7)

State of Local Regulations

U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania – RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania – RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

Section 16: OTHER INFORMATION

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015.

Full Text of H-Statements

Carc. 1A: Carcinogenicity, Category 1A

Eye Dam. 1: Serious eye damage/eye irritation, Category 1

Skin Irrit. 2: Skin corrosion/irritation, Category 2

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STOT RE 1: Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3: Specific target organ toxicity – Single exposure, Category 3,
Respiratory tract irritation

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

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