Section 1: IDENTIFICATION

Product Form:	Substance
Trade Name:	High Calcium Limestone
Product Type:	Solid
Other Means of Identification:	Limestone, Calcium Carbonate, Calcite, Aragonite, Flux stone, Fine ground limestone, Rock dust.

Recommended Use and Restrictions on Use

Use of the Substance/Mixture:	Neutralisation, desulphurisation, flux, aggregates, mineral filler, liming, lime, feed ingredient.
Supplier:	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
Phone Number:	780-962-9490
Emergency Telephone Number:	CHEMTREC 1-800-424-9300 CHEMTREC International +1 (703) 527-3887 24h

Section 2: HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification

Carcinogenicity:	Category 1A
Specific Target Organ Toxicity – Repeated Exposure:	Category 1

GHS Label Elements, Including Precautionary Statements

GHS Labelling

Hazard Pictograms (GHS):

Signal Word (GHS):	Danger
Hazard Statements (GHS):	May cause cancer (inhalation). Causes damage to organs (lungs) through prolonged or repeated exposure.
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. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. 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

Substances
Name: **High Calcium Limestone**

Name	Chemical Name/Synonyms	Product Identifier	%
Limestone	Limestone Chalk / Limestone (A non-combustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate.) / Natural calcium carbonate / Marble / Calcium carbonate / Limestone (sedimentary rock) / Calcite / Limestone ground / Acetate, 4-methyl-2-propyl-2H-tetrahydropyran-4-yl / Ground limestone	CAS-No.: 1317-65-3	90-100%
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.

Mixtures: Not applicable.

Section 4: FIRST-AID MEASURES

Description of First-Aid Measures

First-aid Measures General: IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid Measures After Skin Contact:	If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
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. If eye irritation persists: Get medical advice/attention.
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.

Most Important Symptoms and Effects (Acute and Delayed)

Symptoms/effects after Inhalation:	May cause irritation to the respiratory tract.
Symptoms/effects after Skin Contact:	May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after Eye Contact:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
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 lungs 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:	Products of combustion may include and are not limited to: oxides of carbon. Metal oxides.

Special Protective Equipment and Precautions for Firefighters

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, 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.
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. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for Cleaning Up:	Vacuum or sweep material and place in a disposal container. Provide ventilation. Do not use water for cleaning.
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. Avoid breathing dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. The use of compressed air for cleaning clothing, equipment, etc., is not recommended. Good housekeeping is important to prevent accumulation of dust.
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 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 Limestone

No additional information available.

Limestone (1317-65-3)

Canada (Alberta) – Occupational Exposure Limits

OEL TWA	10 mg/m³

Canada (British Columbia) – Occupational Exposure Limits

OEL TWA	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)

Canada (Quebec) Occupational Exposure Limits

VEMP (OEL TWA)	10 mg/m³ (Limestone, containing no Asbestos and <1% Crystalline silica-total dust)

Canada (Saskatchewan) Occupational Exposure Limits

OEL TWA	10 mg/m³
OEL STEL	20 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	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)

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))

USA - ACGIH - Occupational Exposure Limits

Local Name	Silica crystaline - quartz
ACGIH OEL TWA	0.025 mg/m³ (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/m³ (Respirable crystalline silica)
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA) use formula: (30 mg/m3 / (%SiO2+2)) for mg/m3. 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/m³ (respirable dust)

USA - NIOSH - Occupational Exposure Limits

NIOSH REL TWA	0.05 mg/m³ (respirable dust)

USA - MSHA - Occupational Exposure Limits

MSHA PEL TWA 8/40 h	30 mg/m3 / (%SiO2) + 2 mg/m3 (Total dust) 10 mg/m3 / (%SiO2) + 2 mg/m3 (Respirable dust)

Appropriate Engineering Controls: Ensure good ventilation of the workstation.

Environmental Exposure Controls:	Avoid release to the environment.

Individual Protection Measures/Personal Protective Equipment

Hand Protection:	Wear suitable gloves.
Eye Protection:	Safety glasses or goggles are recommended when using product.
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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	Powder
Colour:	White to grey
Odour:	Odourless
Odour Threshold:	No data available
pH:	8 - 9.2 (@ 25 °C / 77 °F)
Melting Point:	Not applicable
Freezing Point:	Not applicable
Boiling Point:	No data available
Flash Point:	Not applicable
Relative Evaporation Rate (butylacetate=1):	Not applicable
Flammability:	No data available
Vapour Pressure:	Not applicable
Relative Vapour Density at 20°C / 68 °F:	Not applicable
Relative Density:	2.68 - 2.76.
Density:	2.68 - 2.76 g/cm³
Solubility:	Water: 6.6 mg/kg (@ 20 °C / 68 °F).
Partition Coefficient n-Octanol/water:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition Temperature:	900 °C (1652°F) (760 mm pressure).

Viscosity, Kinematic:	No data available
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

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 normal conditions of use.
Conditions to Avoid:	Incompatible materials.
Incompatible Materials:	Oxidizing materials. Strong acids.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity (Oral):	Not classified
Acute Toxicity (Dermal):	Not classified
Acute Toxicity (Inhalation):	Not classified
Skin Corrosion/Irritation:	Not classified pH: 8 - 9.2 (@ 25 °C / 77 °F)
Serious Eye Damage/Irritation:	Not classified pH: 8 - 9.2 (@ 25 °C / 77 °F)
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	May cause cancer by inhalation. 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
STOT – Single Exposure:	Not classified
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
Symptoms/Effects after Inhalation:	May cause irritation to the respiratory tract.
Symptoms/Effects after Skin Contact:	May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/Effects after Eye Contact:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
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 lungs 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 Limestone

Persistence and Degradability: Not established

Bio Accumulative Potential

High Calcium Limestone

Partition coefficient n-octanol/water	Not applicable
Bio Accumulative potential	Not established

Mobility in Soil: No additional information available.

Other Information: No other effects known.

Section 13: DISPOSAL CONSIDERATIONS

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

Proper Shipping Name (DOT):	Not applicable
Proper Shipping Name (TDG):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable

Transport Hazard Class(es)

Transport Hazard Class(es) (DOT): Not applicable

Transport Hazard Class(es) (TDG): Not applicable

Transport Hazard Class(es) (IMDG): Not applicable

Transport Hazard Class(es) (IATA): Not applicable

Packing Group

Packing Group (DOT): Not applicable

Packing Group (TDG): Not applicable

Packing Group (IMDG): Not applicable

Packing Group (IATA): Not applicable

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 No data available

TDG No data available

IMDG No data available

IATA No 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	State or Local Regulations
Limestone (1317-65-3)	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

Quartz(14808-60-7)	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
STOT RE 1	Specific target organ toxicity - Repeated exposure, Category 1

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.**

Revision Date: April 24, 2024