

## BRIDGIT SERIES

### SECTION 1. IDENTIFICATION

|                                      |  |
|--------------------------------------|--|
| <b>Product Identifier</b>            | BRIDGIT SERIES   |
| <b>Other Means of Identification</b> | Sized Calcium Carbonate (Limestone)  |
| <b>Product Family</b>                | Lost Circulation Material  |
| <b>Recommended Use</b>               | Drilling Fluid Additive.   |
| <b>Supplier Identifier</b>           | Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com |
| <b>Emergency Phone No.</b>           | ChemTrec, (800) 424-9300, 24/7   |

### SECTION 2. HAZARD IDENTIFICATION

**Classification**

Acute toxicity (Inhalation) - Category 4; Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 2

**Label Elements**



Signal Word:

Danger

Hazard Statement(s):

Harmful if inhaled.

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

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

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice or attention if you feel unwell.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | % | Other Identifiers | Other Names |
|---------------|---------|---|-------------------|-------------|
|               |         |   |                   |             |

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|                |            |         |  |  |
|----------------|------------|---------|--|--|
| Silica, quartz | 14808-60-7 | 0.1-1.0 |  |  |
|----------------|------------|---------|--|--|

**Notes**

Concentrations are expressed in % weight/weight.

**SECTION 4. FIRST-AID MEASURES**

**First-aid Measures**

**Inhalation**

Move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen and get immediate medical attention.

**Skin Contact**

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If irritation develops or persists, seek medical attention.

**Eye Contact**

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation develops or persists, seek medical attention.

**Ingestion**

Drink 2-3 glasses of water. Never give anything by mouth to an unconscious or convulsing victim. Loosen tight clothing such as a collar, tie, belt or waistband. If victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attention.

**Most Important Symptoms and Effects, Acute and Delayed**

If in eyes:

May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.

**Immediate Medical Attention and Special Treatment**

**Target Organs**

Lungs.

**SECTION 5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media**

Not combustible. Use extinguishing agent suitable for surrounding fire.

**Specific Hazards Arising from the Product**

Does not burn.

Calcium carbonate is generally non-flammable but ignites on contact with fluorine.

**Special Protective Equipment and Precautions for Fire-fighters**

Evacuate area. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.

The use of self-contained breathing apparatus is recommended for firefighters.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment, and Emergency Procedures**

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. No flares, smoking or flames in hazard area. Provide adequate ventilation.

**Environmental Precautions**

It is good practice to prevent releases into the environment.

**Methods and Materials for Containment and Cleaning Up**

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Collect using shovel/scoop or approved-HEPA vacuum and place in suitable container for disposal. After cleaning, flush away traces with water; wet product may create a slipping hazard. Avoid generating dust.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Avoid breathing any dust from this material. Avoid contact with skin, eyes and clothing. Avoid generating dusts. Only use where there is adequate ventilation.

Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. DO NOT eat, drink, smoke or store food in work areas. Remove contaminated clothing and protective equipment before entering eating areas or when leaving work. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

### Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container closed when not in use.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(calcium carbonate)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average (8/40h) 5 mg/m<sup>3</sup> (respirable dust) 15 mg/m<sup>3</sup> (total dust)

(silica, quartz)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average (8/40h) 0.1 mg/m<sup>3</sup>

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average.

### Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses with side shields are recommended to prevent eye contact.

#### Skin Protection

Skin contact should be minimized through use of suitable long-sleeved clothing (i.e. shirt and pants, coveralls).

#### Respiratory Protection

Do not breathe in this product. Use a NIOSH-approved dust mask when required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

|  |   |
|--|---|
| <b>Appearance</b>                                  | White powder.                                   |
| <b>Odour</b>                                       | Odourless                                       |
| <b>pH</b>  | 8.5 - 9.5 (10% solution)                        |
| <b>Melting Point/Freezing Point</b>                | Not available (melting)                         |
| <b>Initial Boiling Point/Range</b>                 | Not applicable                                  |
| <b>Flash Point</b>                                 | Not applicable                                  |
| <b>Evaporation Rate</b>                            | Not available                                   |
| <b>Upper/Lower Flammability or Explosive Limit</b> | Not available (upper); Not available (lower)    |
| <b>Vapour Pressure</b>                             | Not available                                   |
| <b>Vapour Density (air = 1)</b>                    | Not available                                   |
| <b>Relative Density (water = 1)</b>                | Not available                                   |
| <b>Solubility</b>                                  | Practically insoluble (less than 0.1%) in water |

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|                                  |               |
|----------------------------------|---------------|
| <b>Decomposition Temperature</b> | Not available |
| <b>Other Information</b>         |               |
| <b>Physical State</b>            | Solid         |
| <b>Molecular Formula</b>         | Not available |
| <b>Molecular Weight</b>          | Not available |
| <b>Bulk Density</b>              | Not available |

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

Very stable chemical substance.

### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### Conditions to Avoid

Reacts with acids to liberate carbon dioxide. Ignites on contact with fluorine. May have explosive reaction with magnesium.

### Incompatible Materials

Fluorine, magneaium, aluminum, silicon, hydrogen, mercury, aluminum sulfate, ammonium salt, acids.

### Hazardous Decomposition Products

Decomposition produces calcium oxide and carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

This product may contain trace amounts of crystalline silica.

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

(silica, quartz)

LD50 Oral Rat: 500 mg/kg

### Skin Corrosion/Irritation

May cause dryness and mechanical irritation.. Moderate skin irritation (Rabbit): 500 mg/24-hr.

### Serious Eye Damage/Irritation

May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.

May cause mechanical eye irritation with discomfort or pain, local redness and swelling of the conjunctiva. Severe eye irritation (Rabbit): 750 microgram/24hr.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause mechanical irritation. Prolonged or repeated exposure to fine airborne crystalline silica dust, like quartz dust, is known to cause silicosis.

If inhaled in the form of dust, may cause respiratory tract irritation/inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitis.

#### Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Causes gastro-intestinal distress, nausea and vomiting. If ingested in large quantities, constipation and hypercalcaemia, hemorrhage.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

No signs or symptoms of chronic exposure have been reported. Long-term exposure to products containing crystalline silica may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Avoid inhalation. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and

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auto-immune disease.

Contains crystalline silica, which may cause lung cancer. Excessive inhalation of particulate can cause irritation, inflammation and/or permanent injury to the lungs. Illnesses such as pneumoconiosis ("dusty lung"), pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma may develop.

#### **Carcinogenicity**

This product could contain crystalline silica which, when inhaled in the form of quartz dust from occupational sources, is carcinogenic to humans.

IARC (Group 1): carcinogenic to humans

ACGIH (A2): suspected as a human carcinogen

NTP: as reasonably anticipated to be (a) carcinogen.

(calcium carbonate):

Not listed by IARC, NTP, OSHA or ACGIH.

(silica, quartz):

IARC (Group 1): carcinogenic to humans

ACGIH (A2): suspected as a human carcinogen

NTP: known human carcinogen

No information was located for: Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

## **SECTION 12. ECOLOGICAL INFORMATION**

No ecotoxicity or environmental fate data available.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Recycle and reuse product, if possible. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. This product is inert and can be landfilled in most locations; check with local operator.

## **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## **SECTION 15. REGULATORY INFORMATION**

### **Safety, Health and Environmental Regulations**

#### **Canada**

#### **WHMIS 1988 Classification**



Class D2A

D2A - Very Toxic (Carcinogenicity)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### **Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL/NDSL.

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## SECTION 16. OTHER INFORMATION

**NFPA Rating**            **Health - 1**    **Flammability - 0**    **Instability - 0**

**SDS Prepared By**     Bri-Chem Supply Ltd

**Phone No.**            (403) 252-5904

**Date of Preparation**    December 29, 2020

**Disclaimer**            This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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