



### Material Safety Data Sheet

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Bridgit Series  
**Product Family** Sized Calcium Carbonate  
**Supplier** Engenium Chemicals Corp., 4333 - 46th Avenue S.E. , Calgary, Alberta , T2B-3N5, 403-279-8545  
**Emergency Contact Information** CANUTEC, 613-996-6666 or \*666 on a cellular phone (Canada Only), 24 Hours / Day  
**Use** Drilling mud additive

#### 2. HAZARDS IDENTIFICATION

##### Potential Health Effects

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

**Skin Contact** May cause mechanical irritation.

**Eye Contact** 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.

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

**Carcinogenicity** CARCINOGEN.

**Teratogenicity / Embryotoxicity** No information was located.

**Reproductive Toxicity** No information was located.

**Mutagenicity** No information was located.

**Target Organs** Lungs.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %	Other Identifiers
Silica, quartz	14808-60-7	0.1 - 1	

**Notes** Concentrations are expressed in % weight/weight.

#### 4. FIRST AID MEASURES

##### First Aid Procedures

**Inhalation** Move victim to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention if irritation develops or persists.

**Skin Contact** Quickly take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. Seek medical attention if irritation develops or persists.

**Eye Contact** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Seek medical attention if irritation develops or persists.

**Ingestion** Loosen tight clothing such as a collar, tie, belt or waist band. Have victim rinse mouth with water. NEVER give anything by mouth if victim is rapidly losing consciousness, or is

unconscious or convulsing. DO NOT INDUCE VOMITING. Seek medical attention.

## 5. FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	Does not burn.
<b>Suitable Extinguishing Media</b>	Not combustible. Use extinguishing agent suitable for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	None known.
<b>Specific Hazards Arising from the Chemical</b>	None Known.
<b>Protective Equipment and Precautions for Firefighters</b>	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 fire fighters.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Provide adequate ventilation. Use the Personal Protective Equipment recommended in Section 8 of this MSDS.
<b>Environmental Precautions</b>	Prevent material from entering public sewer system or any waterways.
<b>Methods for Containment and Clean-up</b>	Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. After cleaning, flush away traces with water wet product may create a slipping hazard. Avoid generating dust.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment to avoid direct contact with this chemical. Avoid contact with skin and eyes. Avoid dust formation.
<b>Storage</b>	Store in an area that is: well-ventilated. Dry separate from incompatible materials (see Section 10: Stability and Reactivity). Keep containers closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, quartz	0.025 mg/m <sup>3</sup>	Not established	0.1 mg/m <sup>3</sup>	Not established	Not established	Not established

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

### Personal Protective Equipment (PPE)

<b>Eye/Face Protection</b>	Safety glasses with side shields are recommended to prevent eye contact.
<b>Skin Protection</b>	Chemically resistant gloves should be used. Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirt and pants, coveralls).
<b>Respiratory Protection</b>	Do not breathe in this product. Wear a NIOSH approved dust mask when required.
<b>General Hygiene Considerations</b>	Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas. Remove contaminated clothing and protective equipment before entering eating areas or leaving work area. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White.
Odour	Odourless
Odour Threshold	Not available
Boiling Point	Not applicable
Freezing Point	Not available
Bulk Density	Not available
Solubility in Water	Insoluble
pH	8.5 - 9.5 (10% solution)
Partition Coefficient, n-Octanol/Water	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Evaporation Rate	Not available
Flash Point	Not applicable

## 10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Generation of dust. Open flames, sparks, static discharge, heat and other ignition sources.
Incompatible Materials	Strong oxidizing agents (e.g. perchloric acid).
Hazardous Decomposition Products	Oxides of Carbon.
Possibility of Hazardous Reactions	None known.

## 11. TOXICOLOGICAL INFORMATION

### LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, quartz	Not available	500 mg/kg (rat)	Not available

### Effects of Short-Term (Acute) Exposure

#### Ingestion

May cause.

### Effects of Long-Term (Chronic) Exposure

Contains crystalline silica, which may cause lung cancer. Long term 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

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed

IARC: Group 1 – Carcinogenic to humans. ACGIH®: A2 – Suspected human carcinogen.

### Teratogenicity / Embryotoxicity

No information was located.

### Reproductive Toxicity

No information was located.

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## Mutagenicity

No information was located.

## 12. ECOLOGICAL INFORMATION

**General Comments** Environmental information was not located.

**Ecotoxicity** Studies were not located.

**Persistence and Degradability** No information was located.

**Bioaccumulation / Accumulation** No information was located.

**Mobility** Studies are not available.

## 13. DISPOSAL CONSIDERATIONS

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## 14. TRANSPORT INFORMATION

### Shipping Information

Not regulated under Canadian TDG Regulations.

### Other Transport Information

**Special Shipping Information** Not applicable

## 15. REGULATORY INFORMATION

### Canada

#### WHMIS 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 MSDS contains all of the information required by the Controlled Products Regulations.

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

All intentional components of this product are either on the DSL, the confidential DSL or notifications / import restrictions are in place.

### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## 16. OTHER INFORMATION

**MSDS Prepared By** Product Safety Committee

**Phone No.** 403-279-8545

**Date of Preparation** April 20, 2015

**Disclaimer** To the best of our knowledge, the information contained herein is accurate. However, neither

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