



# Material Safety Data Sheet

## PRAIRIE PLUG

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** PRAIRIE PLUG  
**Product Family** Inorganic Salt  
**Supplier** Prairie Mud and Chemical Serv., 738 - 6th Street, Estevan, SK, S4A 1A4, 306-634-3411  
**Emergency Contact Information** CANUTEC, 613-996-6666 or \*666 on a cellular phone (Canada Only), 24 Hours / Day  
**Use** Oil well cement additive

### 2. HAZARDS IDENTIFICATION

#### Potential Health Effects

**Inhalation** Dust may cause respiratory tract irritation. This product contains naturally occurring crystalline silica (quartz). Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease. Exposure associated with most uses of this product(s) should be well below the permissible exposure limits; however, employers should perform workplace testing to determine actual exposure levels.

**Skin Contact** May develop enough heat to cause burns if large mass is in contact with skin during hardening (hydration). Dust may cause dry skin.

**Eye Contact** May cause mild 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.

**Ingestion** Can irritate the mouth, throat and stomach. May cause mechanical obstruction.

**Carcinogenicity** Probable carcinogen.

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

**Reproductive Toxicity** No information was located.

**Mutagenicity** No information was located.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %	Other Identifiers
Silica, quartz	14808-60-7	1 - 5	

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

### 4. FIRST AID MEASURES

#### First Aid Procedures

**Inhalation** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. 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** Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. 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** Quickly and gently blot or brush chemical off the face. 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** 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

**Flammable Properties** Not classified as flammable or combustible.

**Suitable Extinguishing Media** Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

**Unsuitable Extinguishing Media** None known.

**Protective Equipment and Precautions for Firefighters** Use water to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Handle in accordance with good industrial hygiene and safety practice.

**Environmental Precautions** Prevent material from entering public sewer system or any waterways if the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

**Methods for Containment and Clean-up** Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

## 7. HANDLING AND STORAGE

**Handling** Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. Keep container dry.

**Storage** Store in a dry place. Do not store in unlabeled containers. Store in tightly closed containers.

## 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.

### Personal Protective Equipment (PPE)

**Eye/Face Protection** Do not get in eyes. Safety glasses with side shields are recommended to prevent eye contact.

**Skin Protection** Chemically resistant gloves should be used.

**Respiratory Protection** Do not breathe in this product. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid

**Appearance** Light grey - white powder.

**Odour** Faint

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<b>Odour Threshold</b>	Not available
<b>Boiling Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Relative Density (water = 1)</b>	2.3 - 2.7
<b>Solubility in Water</b>	Slightly soluble (0.1-1%)
<b>pH</b>	6 - 10
<b>Partition Coefficient, n-Octanol/Water</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Normally stable.
<b>Conditions to Avoid</b>	Generation of dust.
<b>Incompatible Materials</b>	Strong oxidizing agents (e.g. perchloric acid). Acids.
<b>Hazardous Decomposition Products</b>	Oxides of Carbon Oxides of Sulfur.
<b>Possibility of Hazardous Reactions</b>	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

### Carcinogenicity

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

ACGIH®:

A2 – Suspected human carcinogen.

IARC:

Group 1 – Carcinogenic to humans.

### Teratogenicity / Embryotoxicity

No information was located.

### Reproductive Toxicity

No information was located.

### 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.

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**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** February 11, 2015

**Disclaimer** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.