

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

Classification

WHMIS Classification

Class D2A



D2A - Very Toxic (Carcinogenicity)

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

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.

Media

Unsuitable Extinguishing Media

Protective Equipment and Precautions for Firefighters

None known.

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

Methods for Containment and Clean-up

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.

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.

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Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, quartz	0.025 mg/m3	Not established	0.1 mg/m3	Not established	Not established	Not established

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Engineering Controls General ventilation is usually adequate.

Personal Protective Equipment (PPE)

Eye/Face Protection Skin Protection

Do not get in eyes. Safety glasses with side shields are recommended to prevent eye contact. 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
Odour Threshold	Not available
Boiling Point	Not available
Freezing Point	Not available
Relative Density (water = 1)	2.3 - 2.7
Solubility in Water	Slightly soluble (0.1-1%)
pH	6 - 10
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.
Incompatible Materials	Strong oxidizing agents (e.g. perchloric acid). Acids.
Hazardous Decomposition Products	Oxides of Carbon Oxides of Sulfur.
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

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA

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Silica, quartz	Group 1	A2	Known carcinogen	Not Listed
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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

Ecotoxicity

Persistence and Degradability

Environmental information was not located.

Studies were not located. No information was located.

Bioaccumulation / Accumulation Mobility

No information was located. 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



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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)

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All ingredients are listed on the TSCA Inventory.

16. OTHER INFORMATION

Phone No. 306-634-3411

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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.
