



SECTION 1. IDENTIFICATION

Product Identifier ENVIRO-PLUG MEDIUM
Product Family Wellbore Sealant
Recommended Use Drilling Fluid Additive.
Supplier Identifier Prairie Mud Service, 738 6th Street, Estevan, SK S4A 1A4 306-634-3411

Emergency Phone No. CANUTEC - (613) 996-6666 or *666 on cellular phone

SECTION 2. HAZARD IDENTIFICATION

Classification

Specific target organ toxicity (repeated exposure) - Category 1

Label Elements



Signal Word:

Danger

Hazard Statement(s):

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.

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

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

Wash hands and skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Storage:

Store locked up. Keep out of reach of children.

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

Other Hazards

May cause eye and respiratory irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Silica, quartz	14808-60-7	=<6%		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration and seek medical attention. Inhalation may aggravate existing respiratory illness.

Skin Contact

Wash with soap and water. If adverse symptoms develop, seek medical attention.

Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 15 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

No adverse effects expected. DO NOT INDUCE VOMITING.

First-aid Comments

Treat symptomatically.

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 or support combustion.

Special Protective Equipment and Precautions for Fire-fighters

Does not burn or support combustion. Product is slippery when wetted.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent spilled material and/or runoff from entering waterways, drains and sewers.

Methods and Materials for Containment and Cleaning Up

Avoid breathing dust; wear respirator approved for silica-bearing dust. Vacuum up to avoid generating airborne dust.

Avoid using water; product is slippery when wetted.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid ingestion. Avoid skin and eye contact. Practice reasonable caution and personal cleanliness. Material is slippery when wet.

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.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated place. Keep container tightly closed. Storage area floors may become slippery if wetted.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Crystalline Silica, quartz

ACGIH TLV-TWA: 0.025 mg/m³

OSHA PEL-TWA*: 10 mg/m³ divided by the value of "%SiO₂ + 2"

*More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

ACGIH® = American Conference of Governmental Industrial Hygienists.

TLV® = Threshold Limit Value.

TWA = Time-Weighted Average.

OSHA = US Occupational Safety and Health Administration.

PEL = Permissible Exposure Limits.

Appropriate Engineering Controls

Provide mechanical ventilation to prevent dust concentrations and to reduce potential exposure.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Chemical resistant clothing such as gloves and apron are recommended.

Respiratory Protection

In absence of proper ventilation, recommend NIOSH-approved dust respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Light tan - grey powder. Particle Size: Not available
Odour	Odourless
pH	8 - 10 (5% solution)
Melting Point/Freezing Point	Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Relative Density (water = 1)	2.45 - 2.55
Solubility	Insoluble in water; Not applicable (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); 3.5 - 12.5 centipoises at 20 °C (dynamic)
Other Information	
Physical State	Solid
Molecular Formula	Not available
Molecular Weight	Not applicable
Bulk Density	60 - 66 lb/ft3 (961 - 1057 kg/m3)

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

None.

Incompatible Materials

None known.

Hazardous Decomposition Products

None.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Eye contact; skin contact; inhalation.

Skin Corrosion/Irritation

Possible drying resulting in dermatitis.

Serious Eye Damage/Irritation

Mechanical irritant.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Acute exposure to dust levels exceeding the PEL may cause irritation of respiratory tract.
May cause irritation of respiratory tract resulting in a dry cough.

Ingestion

No adverse effects expected for normal, incidental ingestion.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Individuals with respiratory disease, including but limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to respirable quartz-bearing dust.

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Carcinogenicity

Silica Quartz

IARC: Group 1

ACGIH: A2

NTP: Known human carcinogen.

Key to Abbreviations

IARC = International Agency for Research on Cancer.

Group 1 = Carcinogenic to humans.

ACGIH® = American Conference of Governmental Industrial Hygienists.

A2 = Suspected human carcinogen.

NTP = National Toxicology Program.

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

SECTION 12. ECOLOGICAL INFORMATION

No ecological information or environmental fate data is available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

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 Classification



Very Toxic

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 components are included or are exempted from listing on the Canadian Domestic Substance List.

SECTION 16. OTHER INFORMATION

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

SDS Prepared By Prairie Mud Service

Phone No. (306) 634-3411

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Disclaimer

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