

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Information: ENVIROPLUG® 8

Chemical Family: Mineral

Recommended Use: Drilling Fluid Additive
Supplier: Bri-Chem Supply Ltd.

27075 Acheson Road Acheson, AB T7X 6B1

780-962-9490

Emergency Phone Number: CHEMTREC 800.424.9300

Section 2: HAZARD(S) IDENTIFICATION

Hazard Classification: Carcinogenicity (Category 1A)

Specific Target Organ Toxicity (Repeated Exposure)

(Category 1)

Signal Word: Danger

Hazard Statements: May cause cancer

Causes damage to organs through prolonged or repeated

exposure

Hazard Symbol:

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood. Do not breathe dust. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when

using this product.

Response: If exposed or concerned: Get medical advice/attention. Get

medical attention/advice if you feel unwell.

Storage: Store locked up

Disposal: Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazards Not Otherwise

Classified:

May cause eye and respiratory irritation



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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances CAS-No. Percent

Crystalline Silica, quartz 14808-60-7 <6%

Section 4: FIRST-AID MEASURES

Inhalation: If inhaled, remove to a dust free area, Get medical attention if

respiratory irritation develops or if breathing becomes difficult.

Inhalation may aggravate existing respiratory illness.

Eyes: In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention if irritation

persists.

Skin: Wash with soap and water. Seek medical attention if irritation

persists.

Ingestion: Do not induce vomiting. First aid measures not normally

required.

Notes to Physician: Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing

Media:

Product is non-combustible. All standard firefighting media may

be used.

Unsuitable Extinguishing

Media:

None

Special Exposure Hazards: None known. Product is not combustible.

Special Protective

Equipment and Precautions

for Firefighters:

None for product. Wear self-contained breathing apparatus

(SCBA) and full protective gear.

Caution: Slippery when wet.

NFPA Ratings: Health: 1

Flammability: 0 Reactivity: 0

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautionary

Measures:

Use appropriate protective equipment. Avoid creating and

breathing dust.

Environmental

Precautionary Measures:

Keep from entering sewers or water ways

Procedure for

Cleaning/Absorption:

Avoid generating dust. Collect using appropriate dustless method. Dispose in licensed landfill according to local, state

and federal regulations.



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Section 7: HANDLING AND STORAGE

Handling Precautions: This product contains quartz which may become airborne.

Avoid breathing dust. Avoid creating dusty conditions. Promptly clean up spills to avoid breathing airborne dust. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH/MSHA European Standard En 149, or equivalent certified for silica bearing dust, respirator when using this product. Material is slippery when wet.

Storage Information: Use good housekeeping in storage and work areas to prevent

accumulation of dust. Close container when not in use. Do not

reuse empty container.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Substances CAS Number ACGIH TLV-TWA OSHA PEL-TWA*

Crystalline Silica, quartz 14808-60-7 0.025 mg/m³ 10 mg/m³

%SiO2 + 2

Engineering Controls: Use approved industrial ventilation and local exhaust as required to

maintain exposures below applicable exposure limits

Personal Protective

Equipment:

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial

hygienist or other qualifies professional based on the specific

application of this product.

Respiratory Protection: Not normally needed. If significant exposures exceeding

occupational exposure limit are possible use NIOSH/MSHA

respirator approved for silica bearing dust.

Hand Protection: Standard work gloves

Skin Protection: Wear clothing appropriate for the work environment. Dusty clothing

should be laundered before reuse. Use precautionary measures to

avoid creating dust when removing or laundering clothing.

Eye Protection: Wear safety glasses or goggles to protect against exposure

Other Precautions: None known

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Granular Solid

Color: Light tan to gray as dry powder

Odorless

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



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pH: 8 – 10 (5% aqueous suspension)

Specific Gravity @ 20c

(Water=1):

2.45 - 2.55

Density @ 20c (lbs/gallon): Not determined

Bulk Density @ 20c (lbs/ft₃): 60 - 66

Boiling Point/Range (F/C): Not applicable Freezing Point/Range (F/C): Not applicable Vapor Pressure @ 20c Not applicable

(mmHg):

Vapor Density (Air=1): Not applicable **Percent Volatiles:** Not applicable **Evaporation Rate (Butyl** Not applicable

Acetate=1)

Solubility in Water (g/100ml): Insoluble, forms colloidal suspension

Solubility in Solvents

(g/100ml):

Not applicable

VOCs (lbs/gallon): Not applicable

Viscosity, Dynamic @ 20c

(centipoise):

3.5 - 12.5 (6% aqueous suspension)

Viscosity, Kinematic @ 20c

(Centistrokes)

Not determined

Partition Coefficient/n-

octanol/Water:

Not applicable

Molecular Weight (g/mole): Not applicable Flash Point/Range (F/C): Not applicable Flash Point Method: Not applicable **Autoignition Temperature** Not applicable

(F/C):

Flammability Limits in Air -

Lower (%):

Not applicable

Flammability Limits in Air -

Not applicable

Upper (%):

Section 10: STABILITY AND REACTIVITY

Reactivity: Nonreactive **Chemical Stability:** Stable

Possibility of Hazardous

Reactions:

Will not occur



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Conditions to Avoid: None

Anticipated Incompatibility

(Materials to Avoid):

None known

Hazardous Decomposition

Products:

None

Additional Guidelines: Not applicable

Section 11: TOXICOLOGICAL INFORMATION

Principle Route of Exposure: Eye or skin contact, inhalation.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Inhalation: Inhaled crystalline silica in the form of quartz from occupational

sources is carcinogenic to humans (IARC, Group 1)

Skin Contact: May cause skin irritation due to drying

Eye Contact: May cause mechanical eye irritation

Ingestion: None known

Aggravated Medical

Conditions:

Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not

be exposed to respirable quartz-bearing dust.

Chronic

Effects/Carcinogenicity:

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.

Cancer Status: The International Agency for Research on Cancer (IARC, 1997) concludes that there is sufficient evidence in humans for carcinogenicity of inhaled crystalline silica from occupational sources (IARC Group 1), that

carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics

of the crystalline silica or on external factors affecting its biological activity. See IARC Monograph 68, Silica, Some silicate and Organic Fibres (June 1997). The National Toxicology Program (NTP) classifies respirable crystalline silica as "Known to be a human carcinogen" (NTP 9th Report

on Carcinogens, 2000). The American Conference of Government Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen

(A2).



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Other Information: See "Adverse Effects of Crystalline Silica Exposure" published

by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768

(1997).

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not classified

Carcinogenicity: Refer to IARC Monograph 68, Silica, Some Silicates and

Organic Fibres (June 1997).

Genotoxicity: Not classified

Reproductive/Developmental

Toxicity:

Not classified

Section 12: ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air): Not determined

Persistence/Degradability: Not determined

Bioaccumulation: Not determined

Ecotoxicological Information

Acute Fish Toxicity: Not determined
Acute Crustaceans Toxicity: Not determined
Acute Algae Toxicity: Not determined
Chemical Fate Information: Not determined
Other Information: Not applicable

Section 13: DISPOSAL CONSIDERATIONS

Disposal Method: If product should become a waster dispose in a licensed landfill

according to federal, state and local regulations.

Contaminated Packaging: Follow all applicable national or local regulations

Section 14: TRANSPORT INFORMATION

Land Transportation

DOT: Not regulated as hazardous goods
Canadian TDG: Not regulated as hazardous goods
ADR: Not regulated as hazardous goods

Air Transportation



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ICAO/IATA: Not regulated as hazardous goods

Sea Transportation

IMDG: Not regulated as hazardous goods

Other Transportation Information Labels: None

Section 15: REGULATORY INFORMATION

US Regulations

US TSCA Inventory: All components listed on inventory or are exempt.

EPA SARA Title III Extremely

Hazardous Substances:

Not applicable

EPA SARA (311,312) Hazard Chronic Health Hazard

Class:

This product does not contain a toxic chemical for routine EPA SARA (313) Chemicals:

annual "Toxic Chemical Release Reporting" under Section 313

(40 CFR 372).

EPA CERCLA/Superfund

Reportable Spill Quantity:

Not applicable

EPA RCRA Hazardous

Waste Classification:

If product becomes a waste, it does NOT meet the criteria of a

hazardous waste as defined by the US EPA.

California Proposition 65: This product contains crystalline silica (respirable) which is a

substance known to the State of California to cause cancer.

Canadian Regulations

Canadian DSL Inventory: All components listed on inventory or are exempt

WHMIS Hazard Class: This product contains crystalline silica (respirable) and is

classified as a Class D, Division 2, Subdivision A substance.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

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