



Poly-Drill Drilling Systems

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MATERIAL SAFETY DATA SHEET/FICHE SIGNALÉTIQUE

1. PRODUCT IDENTIFICATION

PRODUCT TRADE NAME(S): Poly Drill 1300
APPLICATION AND USE: FLOCCULANT
DATE ISSUED: January 18, 2003
REPLACES: February 01, 2001

NFPA 704M/HMIS RATING

Health: 0/1 FLAMMABILITY: 1/1 REACTIVITY: 0/0 OTHER:
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Based on our hazard evaluation, none of the substances in this product are hazardous.

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance: Off-white
Odor: Hydrocarbon
Specific Gravity: 1.04 @ 25°C
Density: 1.04 g/cm³
Solubility in water: Emulsifiable
Freezing Point: -24°C
Boiling Point: 100°C

4. FIRE FIGHTING MEASURES

Flash Point: >100°C

LOWER EXPLOSION LIMIT: Not flammable

UPPER EXPLOSION LIMIT: Not flammable

EXTINGUISHING MEDIA:

Foam, Dry powder, Carbon dioxide, other extinguishing agent suitable for Class B fires

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water unless flooding amounts are available.

FIRE AND EXPLOSION HAZARD:

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions.

Water in contact with the product will cause slippery floor conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

5. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CONDITIONS TO AVOID INSTABILITY:

Protect from freezing.

MATERIALS TO AVOID:

Addition of water results in gelling. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire conditions: Oxides of carbon, Oxides of nitrogen.

6. HAZARDS IDENTIFICATION

CAUTION

May cause irritation with prolonged contact.

Do not get in eyes, on skin, on clothing. Do NOT take internally. Water in contact with product will cause slippery floor conditions. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with soap and water.

HUMAN HEALTH HAZARDS – ACUTE

SKIN CONTACT:

May cause irritation with prolonged contact

EYE CONTACT:

May cause irritation with prolonged contact

INGESTION:

Not a likely route of exposure. No adverse effects expected.

INHALATION:

Not a likely route of exposure. Repeated or prolonged exposure may irritate the respiratory tract.

SYSTEMS OF EXPOSURE:

Acute:

A review of available data does not identify any symptoms from exposure not previously mentioned.

Chronic:

Frequent or prolonged contact with product may defat and dry the skin, leading to discomfort and dermatitis.

AGGRAVATION OF EXISTING CONDITIONS:

A review of available data does not identify any worsening of existing conditions.

HUMAN HEALTH HAZARDS – CHRONIC

No adverse effects expected other than those mentioned above

7. FIRST AID PROCEDURES

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation or abnormalities persist, seek medical advice.

EYE: Flush affected area with water. If symptoms develop, seek medical advice

INHALATION: Remove to fresh air, treat symptomatically. If breathing becomes difficult, give oxygen and seek medical advice.

INGESTION: Do NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN:

Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

8. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Notify appropriate government, occupational health and safety and environmental authorities. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 9 (Industrial Hygiene Control Measures).

METHODS FOR CLEANING UP:

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Dispose of material in compliance with regulations indicated in Section 12(Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS:

Do not contaminate surface water.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

This product does not contain any substance that has an established exposure limit.

RESPIRATORY PROTECTION:

Due to its low volatility and toxicity, the hazard potential associated with this material is relatively low. Respiratory protection is not normally needed.

ENGINEERING MEASURES:

General ventilation is recommended

EYE PROTECTION:

Wear chemical splash goggles

SKIN PROTECTION:

Wear standard protective clothing.

HAND PROTECTION

Nitrile gloves, PVC gloves.

HYGIENE RECOMMENDATIONS:

Keep an eye wash fountain available. Keep a safety shower available.

10. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS

ACUTE FISH RESULTS:

| Species | Exposure | LC50 | Tested Substance |
|---------------|----------|----------|------------------|
| Rainbow Trout | 96 hours | 132 mg/l | Poly-Drill 1300 |

RATING: Essentially non-toxic

ACUTE INVERTEBRATE RESULTS:

| Speices | Exposure | LC50 | EC50 | Tested Substance |
|---------------|----------|--------------|--------|------------------|
| Daphnia magna | 48 hours | 10 - 30 mg/l | 1 mg/l | Poly-Drill 1300 |

RATING: Moderately toxic

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Moderate.

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Moderate.

11. DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name: Drilling Mud

Hazard Class: Not hazardous

Hazardous Substances: None

Cautionary Labeling: None required

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

12. DISPOSAL CONSIDERATIONS

In Ontario, the waste class under Regulation 347 is: 233L

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage.

13. REGULATORY INFORMATION

NATIONAL REGULATIONS CANADA:

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):

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

WHMIS CLASSIFICATION

Not considered a WHMIS controlled product.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All substances in this product are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

NATIONAL POLLUTANT RELEASE INVENTORY (Npri):

This product does not contain any substances listed in Schedule I of the NPRI at a concentration of one percent or more by weight.

NATIONAL REGULATIONS, USA:

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical substances in this product are on the TSCA 8(b) Inventory (40 CFR 710) or are sold commercially under the polymer exemption (40 CFR 723.250). The chemical substances in this product are on the TSCA 8(b) Inventory (40 CFR 710) or are sold commercially under the polymer exemption (40 CFR 723.250).

14. OTHER INFORMATION