

Date of Preparation: September 4, 2018

#### Section 1: IDENTIFICATION

**Product Name:** DRILLSOL® PLUS

Synonyms: Not available.

**Product Use:** Hydrocarbon Drilling Fluid.

**Restrictions on Use:** Not available.

Manufacturer/Supplier: Enerchem International Inc.

Suite 3900, Bow Valley Square 2

205-5th Ave SW Calgary, Alberta

**Phone Number:** 1-800-380-4580

**Emergency Phone:** (613) 996-6666 (CANUTEC)

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## Section 2: HAZARD(S) IDENTIFICATION

## **GHS INFORMATION**

Classification: Carcinogenicity, Category 1B

Aspiration Hazard, Category 1

**LABEL ELEMENTS** 

Hazard

Pictogram(s):

Danger

Signal Word:

Hazard May cause cancer.

Statements: May be fatal if swallowed and enters airways.

**Precautionary Statements** 

Prevention: Obtain special instructions before use.

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

Wear protective gloves, protective clothing and eye protection.

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

IF exposed or concerned: Get medical advice/attention.

Do NOT induce vomiting.

**Storage:** Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national

and local laws and regulations.

**Hazards Not Otherwise Classified:** Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).



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This material is considered hazardous by the Hazardous Products Regulations.

Hazardous Ingredient(s)Common name / SynonymsCAS No. Synonyms% wt./wt.Gas oils (petroleum), straight-runNot available.64741-43-1100Polycyclic Aromatic HydrocarbonsNot available.130498-29-2variable

**Section 4: FIRST-AID MEASURES** 

**Inhalation:** If inhaled: Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause respiratory irritation.

Signs/symptoms may include cough, sneezing, nasal discharge,

headache, hoarseness, and nose and throat pain.

**Eye Contact:** If in eyes: Rinse cautiously with water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Call a poison

center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause eye irritation.

Signs/symptoms may include redness, swelling, pain, tearing, and blurred

or hazy vision.

**Skin Contact:** If on skin: Wash with plenty of water. Call a poison center or doctor if you

feel unwell.

Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** If swallowed: Do NOT induce vomiting. Immediately call a poison center or

doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

## **Section 5: FIRE-FIGHTING MEASURES**

## FLAMMABILITY AND EXPLOSION INFORMATION

Not flammable or combustible by OSHA/WHMIS criteria. Material will burn if exposed to a fire. Containers may explode when heated.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

**Sensitivity to Static Discharge:** This material is sensitive to static discharge at temperatures

at or above the flash point.

**MEANS OF EXTINCTION** 

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO2, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.



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**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** Oxides of carbon.

**Protection of Firefighters:** Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

Emergency Procedures: Keep unauthorized personnel away. Stay upwind. Keep out of low

areas. Ventilate closed spaces before entering. ELIMINATE all

ignition sources (no smoking, flares, sparks or flames in

immediate area).

Personal Precautions: Do not touch or walk through spilled material. Use personal

protection recommended in Section 8.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways.

Methods for Containment: Stop leak if without risk. Do not flush to sewer or allow to enter

waterways.

**Methods for Clean-Up:** Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

Other Information: See Section 13 for disposal considerations.

## **Section 7: HANDLING AND STORAGE**

#### Handling:

Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. See Section 8 for information on Personal Protective Equipment.

## Storage:

Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

#### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

# Exposure Guidelines Component

Gas oils (petroleum), straight-run [CAS No. 64741-43-1]

ACGIH: A2; Exposure by all routes should be carefully controlled to levels as low as

possible (2009); For Mineral oil, excluding metal working fluids; Poorly and mildly

refined

OSHA: 5 mg/m³ (TWA); For Oil mist, mineral.

Polycyclic Aromatic Hydrocarbons [CAS No. 130498-29-2]

ACGIH: A2; BEI; Exposure by all routes should be carefully controlled to levels as low as

possible (1990); For Benz[a]anthracene

**OSHA:** 0.2 mg/m³ (TWA); For benzene-soluble fraction.

TWA: Time-Weighted Average



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Engineering Controls: Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapour, gas, etc.) below recommended

exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)











**Eye/Face Protection:** Wear safety glasses. Use equipment for eye protection that

meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR

1910.133 for Personal Protective Equipment.

**Hand Protection:** Wear protective gloves. Consult manufacturer specifications

for further information.

**Skin and Body Protection:** Wear protective clothing.

**Respiratory Protection:** If engineering controls and ventilation are not sufficient to

control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations

exceed the limits of the air-purifying respirators.

**General Hygiene Considerations:** Handle according to established industrial hygiene and

safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to

ensure adequate protection.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Pale yellow liquid.

Colour: Pale yellow.
Odour: Petroleum.

Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available.Melting Point / Freezing Not available.

Point:

Initial Boiling Point: 221 °C (429.8 °F) (ASTM D86)

Boiling Range: Not available.

**Flash Point:** > 93.3 °C (> 200 °F) (ASTM D93)

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable.

Lower Flammability Limit: Not available.



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Upper Flammability Limit:Not available.Vapor Pressure:Not available.Vapor Density:Not available.

**Relative Density:** 0.830 to 0.850 (Water = 1) at 15  $^{\circ}$ C (59  $^{\circ}$ F) (ASTM D5002)

Solubilities: Insoluble in water.

Partition Coefficient: n-

Octanol/Water:

Not available.

Auto-ignition Temperature: Not available.

Decomposition Not available.

Temperature:

**Viscosity:** < 5 cSt at 40 °C (104 °F) (ASTM D7042)

Percent Volatile, wt. %: Not available.

VOC content, wt. %: Not available.

**Density:** 830 to 850 kg/m³ at 15 °C (59 °F) (ASTM D5002)

Coefficient of Water/Oil

Distribution:

Not available.

#### Section 10: STABILITY AND REACTIVITY

**Reactivity:** Contact with incompatible materials. Sources of ignition. Exposure to

heat.

**Chemical Stability:** Stable under normal storage conditions.

**Possibility of Hazardous** 

Reactions:

None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to

heat.

**Incompatible Materials:** Strong oxidizers.

Hazardous Decomposition Products: Not available.

## **Section 11: TOXICOLOGICAL INFORMATION**

## **EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity** 

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

**Component Toxicity** 

Component CAS No. LD50 oral LD50 dermal LC50

Gas oils (petroleum), 64741-43-1 10000 mg/kg Not available. Not available.

straight-run (rat)

Polycyclic Aromatic 130498-29-2 Not available. Not available. Not available.

**Hydrocarbons** 



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Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Bone

marrow. Liver. Central nervous system.

Symptoms (including delayed and immediate effects)

Inhalation: May cause respiratory irritation. Signs/symptoms may include cough, sneezing,

nasal discharge, headache, hoarseness, and nose and throat pain.

**Eye:** May cause eye irritation. Signs/symptoms may include redness, swelling, pain,

tearing, and blurred or hazy vision.

**Skin:** May cause skin irritation. Signs/symptoms may include localized redness, swelling,

and itching.

**Ingestion:** May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting

and diarrhea.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Not available.

**Aggravated By Exposure:** 

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Bone marrow.

Liver. Kidneys. Central nervous system.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation. Long-

term, repeated skin contact with Desulphurized gas oil may cause dermal sensitization. Liver, kidney and bone marrow injuries may occur. This product contains Polycyclic Aromatic Hydrocarbons. Prolonged contact with these compounds has been associated with the induction of skin and lung tumours, anemia, disorders of the liver,

bone marrow and lymphoid tissues.

Carcinogenicity: May cause cancer. Long-term, repeated skin contact with

Desulphurized gas oil may cause skin cancer.

**Component Carcinogenicity** 

ACGIH Component IARC NTP Prop 65 Gas oils (petroleum), Group 1 List 1 OSHA Carcinogen. Listed. A2 straight-run Polycyclic Aromatic A2 Not listed. List 2 OSHA Carcinogen. Listed.

**Hydrocarbons** 

Mutagenicity: Not available.

Reproductive Effects: Not available.

**Developmental Effects** 

**Teratogenicity:** Not available. **Embryotoxicity:** Not available.

Toxicologically Synergistic Materials: Not available.



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#### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

## Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:** Disposal should be in accordance with applicable regional, national

and local laws and regulations. Local regulations may be more

stringent than regional or national requirements.

## **Section 14: TRANSPORT INFORMATION**

## **U.S. Department of Transportation (DOT)**

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

## Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

### **Section 15: REGULATORY INFORMATION**

Not applicable.

## **Chemical Inventories**

#### US (TSCA)

Label Code:

The components of this product are in compliance with the chemical notification requirements of TSCA.

#### Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

## **Federal Regulations**

#### **United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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**SARA Title III** 

CERCLA Component Section Section Section RCRA CAA 302 (EHS) 304 EHS RQ (lbs.) 313 CODE 112(r)TQ TPQ (lbs.) RQ (lbs.) (lbs.) Polycyclic Aromatic Not listed. Not listed. Not listed. 313 Not listed. Not listed.

Hydrocarbons

## State Regulations

#### Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of

Massachusetts Regulations Section 670.000)

ComponentCAS No.RTK ListGas oils (petroleum), straight-run64741-43-1Listed.Polycyclic Aromatic Hydrocarbons130498-29-2Listed.

## **New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated

Section 34:5A-5)

ComponentCAS No.RTK ListGas oils (petroleum), straight-run64741-43-1SHHS

Note: SHHS = Special Health Hazard Substance

## Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component CAS No. RTK List

Gas oils (petroleum), straight-run 64741-43-1 S
Polycyclic Aromatic Hydrocarbons 130498-29-2 Listed.

**Note:** S = Special Hazardous Substance

#### California

California Prop 65:

WARNING This product can expose you to Gas oils, Toluene, Benzene, Ethylbenzene, Hexane and Polycyclic Aromatic Hydrocarbons which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### **Section 16: OTHER INFORMATION**

#### Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS: September 4, 2018

Version: 3.1

GHS SDS Prepared by: Deerfoot Consulting Inc.

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