



# ***Prairie Mud Service Ltd.***

*"Serving Western Canada with 24 Hour Drilling Mud Service"*

## **MSDS (Material Safety Data Sheet)**

### **MSDS Distillate 822**

#### **PRODUCT IDENTIFICATION**

##### **Synonyms:**

1. Petroleum Hydrocarbon
2. Gas Oil

##### **WHMIS**

**Class D, Div 1:**

**Poisonous Material**

**Class D, Div 2:**

**Poisonous Material**

##### **TDG**

**Not Regulated**

##### **Description:**

Distillate 822 is used in the manufacture of flotation and spray oils, as well as other industrial applications.

**Supplier:** Prairie Mud Service

738-6<sup>th</sup> Street

Estevan, SK S4A 1A4

**Emergency Phone Number:** (306) 634-3411

**Emergency Fax Number:** (306) 634-6694

#### **HAZARDOUS INGREDIENTS**

The following components are defined in accordance with subparagraph 13(a)(i) to (iv) or paragraph 14(a) of the Hazardous Product Act.

##### **NAME LC<sub>50</sub> LD<sub>50</sub> % CAS#**

Gas Oil

(C10-C27)

1.72 mg/L

(rat, 4 hr)

5 gm/kg

(rat, oral)

100 64741-44-2

\* Aromatic content is 20% maximum (benzene nil.)

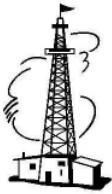
#### **TYPICAL PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Clear colorless oily liquid with hydrocarbon odor.

**Specific Gravity:**

**Density:** 0.90 kg/L (approx.) @ 15°C

**Appearance/Odor:** Clear colorless oily liquid with hydrocarbon odor.



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**Odor Threshold:** Not applicable

**Vapor Pressure:** <1 kPa @ 25°C

**Vapor Density:** 4.5 (approx.) @ 20°C

**Evaporation Rate:**

**Boiling Point/Range:** 204-371°C @ 1 atm

**Viscosity:** Max. 5.7 cSt @ 40°C

**pH:**

**Solubility In Water:** Insoluble

**Coeff. of Water/Oil Dist:**

### **TOXICOLOGICAL PROPERTIES**

#### **ACUTE EFFECTS:**

##### **Inhalation:**

Moderately TOXIC. May cause harmful central nervous system effects. Effects may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death. Severe exposures may cause cardiac sensitization and irregular heart rhythm. Exposure to high concentrations of dense oil mists may lead to oil pneumonia.

##### **Eye Contact:**

Slightly irritating. Rabbit Draize – 3.7/110 @ 1 hours (unwashed)  
Exposure to vapors, fumes, or mists may cause thermal burns.

##### **Skin Contact:**

Practically non-toxic. Rabbit dermal LD<sub>50</sub> = >2 gm/kg. Moderately irritating. Rabbit dermal PSI = 3.2/8.0. Contact with heated material may cause thermal burns.

##### **Ingestion:**

Practically non-toxic. Rat oral LD<sub>50</sub> = >5 gm/kg. May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea. Aspiration into lungs may cause pneumonitis. Exposure may cause central nervous system symptoms including CNS depression (narcosis) similar to those listed under "Inhalation" (see above).

#### **CHRONIC EFFECTS:**

##### **Skin:**

Repeated or prolonged contact may result in defatting, oil acne, redness, itching, inflammation, cracking and possible secondary infection.

##### **Toxicity Data:**

Questionable carcinogen. Diesel fuel (similar) has been tested as an animal (A3) carcinogen.

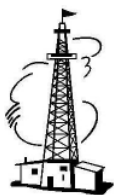
##### **Occupational Exposure Limits (OELs) Recommended:**

Middle Distillate (diesel fuel)

##### **ACGIH:**

(TLV)

100 mg/m<sup>3</sup> (tw)



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### **FIRST AID MEASURES**

#### **Eye Contact:**

Copious warm water flush – 15 minutes. Physician assessment if eyes inflamed. Cleanse soiling with olive oil.

#### **Inhalation:**

Evacuate to fresh air. Apply cardio-pulmonary resuscitation if required. Administer oxygen if available. If resuscitation is required, physician assessment mandatory.

#### **Skin Contact:**

Remove contaminated clothing – launder before reuse. Soap and water wash. Discard saturated leather articles.

#### **Ingestion:**

DO NOT INDUCE VOMITING. If vomiting – take care to prevent aspiration. Give 250ml of milk to drink. Liquid paraffin may slow gastric absorption. Give activated charcoal tablets only if prescribed by physician. Physician assessment mandatory.

#### **Emergency Procedures:**

Gastric lavage should only be done after endotracheal intubation in view of the risk of aspiration which can cause serious chemical pneumonitis for which antibiotic and corticosteroid therapy may be indicated.

### **PREVENTATIVE AND CORRECTIVE MEASURES**

#### **Special Protection Information:**

General ventilation. Use explosion-proof mechanical ventilation suitable for group D atmospheres. Respiratory protection up to 5 mg/m<sup>3</sup> (oil mist), none required. From 5 to 50 mg/m<sup>3</sup>, use an approved organic vapor respirator suitable for oil mist in areas with sufficient oxygen. Above 50 mg/m<sup>3</sup>, use full-face air-supplied or self-contained breathing apparatus. Protective gloves should be of nitrile, viton. Chemical splash goggles must be worn. Chemical resistant clothing should be worn if direct contact with liquid is likely. DO NOT USE NATURAL RUBBER or PVC (polyvinyl chloride).

#### **Spill Control and Disposal:**

Avoid contact. Use full protective equipment and breathing apparatus. ELIMINATE IGNITION SOURCES. Contain spill. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using electrically grounded explosion-proof pumps. Place absorbent in closed metal containers. DO NOT FLUSH TO SEWER.

#### **Handling and Storage:**

Store in cool, well-ventilated area. Electrically ground/bond during the pumping or transfer to avoid static accumulation. AVOID SKIN CONTACT and INHALATION. Practice good personal hygiene. DO NOT SIPHON BY MOUTH OR USE AS A CLEANING SOLVENT. Launder work clothes frequently. Use an allowable exposure of 5mg/m<sup>3</sup> (oil mist) when handling Distillate 822.



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### **Waste Disposal Method:**

Incinerate at licensed waste reclaimer facility.

### **FIRE AND EXPLOSION HAZARD**

**Flash-Point (Method=PMCC):** 100°C (min)

**Auto-Ignition:** >225°C

**Flammable Limits (%Volume):** Lower 0.7%, Upper 6.0%

#### **General Hazards:**

Treat as a flammable liquid.

#### **Fire Fighting:**

Use full protective equipment and self-contained breathing apparatus. Cover with extinguishing agent. Use water spray to cool fire-exposed containers and as a protective screen. Do not point solid water stream directly into burning product to avoid spreading fire.

### **REACTIVITY DATA**

#### **Stability:**

Stable under normal storage and use.

#### **Incompatible Materials and Conditions to Avoid:**

Avoid excessive heat, sources of ignition, formation of oil mist.

Avoid strong oxidizing agents (strong acids, peroxides, chlorine, etc.).

#### **Hazardous Decomposition Products:**

COx, NOx, SOx and dense smoke on combustion.

### **PREPARATION**

**Date Issued:** October 15, 2009

The above information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Prairie Mud Service. cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.