

## MATERIAL SAFETY DATA SHEET

### SECTION 1 ♦ PRODUCT AND COMPANY IDENTIFICATION

Explorer Pipeline Company  
6846 South Canton  
P.O. Box 2650  
Tulsa, Oklahoma 74101

**FOR EMERGENCY SOURCE INFORMATION CONTACT:**

- (918) 493 - 5100
- CHEMTREC: (800) 424-9300 (24 hour contact)
- CANUTEC: (613) 996-6666
- SETIQ: 91-800-00214

**TRADE NAMES/SYNONYMS:** No. 2  
Diesel, Heating Oil

**CHEMICAL FAMILY:** Petroleum  
Hydrocarbon

**EPL Code:** 70 - 79

*This material safety data sheet represents the composite characteristics and properties of fungible petroleum hydrocarbons and other related substances transported by explorer pipeline company. The information presented was compiled from one or more product shipper sources and is intended to provide health and safety guidance for these fungible products. Individual shipper and manufacturer MSDSs are available at Explorer Pipeline Company's, Tulsa, Oklahoma, offices.*

### SECTION 2 \* HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**WARNING! Combustible Liquid!!**

- Light yellow liquid with a kerosene odor.
- Avoid prolonged or repeated liquid, mist, and vapor contact with eyes, skin, and respiratory tract;
- Long-term tests show that similar petroleum distillates have produced skin tumors on laboratory animals;
- May cause CNS depression;
- Can produce skin irritation upon prolonged or repeated contact;
- Keep away from heat, sparks and open flame;
- Wash thoroughly after handling;
- Contains petroleum distillates! If swallowed, do not induce vomiting since aspiration into the lungs will cause chemical pneumonia;
- Avoid breathing vapors or mist;
- Use only with adequate ventilation; and
- Obtain prompt medical attention. **Keep Out of Reach of Children!**

### SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENTAGE (%)
Kerosene Hydrocarbons with a boiling point range of 325 °F to 700 °F. ➤ Contains <0.5% sulfur and <0.01% benzene	8008-20-6	±100%
Stoddard Solvent	8052-41-3	Varies

#### ACUTE

**SUMMARY OF ACUTE HAZARDS:** May cause transient irritation to eyes and skin. Extreme exposure or aspiration into the lungs may cause chemical pneumonia. Overexposure may cause weakness, headache, nausea, confusion, blurred vision or other CNS effects.

**GETTING IT IN YOUR EYE...**

- May cause irritation.

**GETTING IT ON YOUR SKIN...**

- May cause irritation.
- Prolonged or repeated liquid contact can defat the skin and lead to irritation and/or dermatitis.

**SWALLOWING IT...**

- May be harmful or fatal if swallowed.

**BREATHING IT...**

- Extreme overexposure or aspiration into the lungs may cause pneumonia. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects.
- Inhalation of vapors can produce pulmonary irritation.

**CHRONIC**

- This product contains petroleum distillates similar to those shown to produce skin tumors on laboratory animals.
- Avoid prolonged or repeated skin contact.
- Caution is recommended for pre-existing central nervous system diseases, personnel with pre-existing central nervous system disease, skin disorders, or chronic respiratory diseases should avoid exposure to this material.
- Chronic human health effects would not be expected as long as good personal hygiene and proper safety precautions are practiced.

**CANCER, REPRODUCTIVE AND GENETIC EFFECTS**

- This product contains petroleum distillates similar to those shown to produce skin tumors on laboratory animals.

See Toxicological Information (Section 11) For More Information

**SECTION 4 + FIRST AID MEASURES**

**EMERGENCY MEDICAL TREATMENT PROCEDURES:** DO NOT INDUCE VOMITING. Gastric lavage also indicated for complete emptying. Treat symptomatically.

**EYES:** In case of contact, immediately flush eyes with plenty of water for at least 20-30 minutes. Call a physician.

**SKIN:** In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse. If irritation develops, consult a physician.

**INGESTION:** If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY

**SECTION 5 ⌘ FIRE FIGHTING MEASURES**

Combustible Liquid! When heated above the flash point, this material will release flammable vapors which if exposed to an ignition source can burn in the open or be explosive in confined spaces. Mists or sprays may be flammable at temperatures below the normal flash point.

<b>FLASH POINT:</b> (Method Used) 130 °F	<b>FLAMMABLE LIMITS:</b>	LEL: 0.5%
		UEL: 7.5%

**AUTOIGNITION TEMPERATURE:** 494 °F

**EXTINGUISHING MEDIA:** Dry Chemical, Foam, CO<sub>2</sub>, Water Fog, or Halon

**HAZARDOUS REACTIONS/DECOMPOSITION:** Strong acids, alkalis and oxidizers such as liquid chlorine and oxygen.

**SPECIAL INSTRUCTIONS:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. Cool tanks and containers exposed to fire with water.

### SECTION 6 ❖ ACCIDENTAL RELEASE MEASURES

- Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up.
- Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.
- Dike spill.
- Prevent liquid from entering sewers, waterways or low areas.
- Recover free liquid for reuse or reclamation.
- Soak up with sawdust, sand, oil dry or other absorbent material.
- Remove source of heat, sparks, flame, impact, friction, and electricity including internal combustion engines and power tools.
- If equipment is used for spill cleanup, it must be explosion-proof and suitable for flammable liquid and vapors.

NOTE: Vapors released from the spill may create an explosive atmosphere.

### SECTION 7 ✂ HANDLING AND STORAGE

- Prior to working with this product workers should be trained on its proper handling and storage
- Special slow load procedures for “switch loading” must be followed to avoid the static ignition hazard that can exist when this material is loaded into tanks previously containing gasoline or other low flash point products (See A.P.I. publication 2003)
  - Store in accordance with National Fire Protection Association regulations.
  - Protect against physical damage to containers.
  - Separate from oxidizing materials.
  - Store in cool, well ventilated area of non-combustible construction away from possible sources of ignition.

### SECTION 8 # EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Both local exhaust and general room ventilation are usually required in enclosed areas.  
**OTHER HYGIENIC AND WORK PRACTICES:** Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential direct exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using the toilet facilities. Promptly remove soiled clothing. Wash thoroughly before reuse. Shower after work using plenty of soap and water.

#### EXPOSURE LIMITS

##### OSHA PEL

##### ACGIH TLV (2005)

##### Kerosene

TWA	STEL	TWA	STEL
Not Applicable (N.A.)	N.A.	200 mg/M <sup>3</sup>	N.A.

##### Stoddard Solvent

TWA	STEL	TWA	STEL
500 ppm	N.A.	100 mg/M <sup>3</sup>	N.A.

#### PERSONAL PROTECTIVE EQUIPMENT

- **EYES:** Where the possibility of splashing exists, chemical goggles are recommended.
- **SKIN:** Neoprene or NBR recommended protective gloves, coveralls, sleeves, and/or splash aprons.
- **RESPIRATORY PROTECTION:** If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure. In accordance with 29 CFR 1910.134, use either a full-face, air-supplied or air-purifying respirator with organic vapor filters.

### SECTION 9 ↵ PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT (760 MM HG):</b> 325-690 °F	<b>PERCENT VOLATILE BY VOLUME:</b> Slight
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b> 0.85 - 0.93 (39.2 °F)	<b>VISCOSITY UNITS, TEMP:</b> 3 cst at 100°F
<b>EVAPORATION RATE (BuAc = 1):</b> Unavailable	<b>VAPOR DENSITY (AIR =1):</b> 4 - 5
<b>VAPOR PRESSURE AT 68 °F:</b> < 1 mm Hg	<b>SOLUBILITY IN WATER:</b> Negligible

**APPEARANCE AND ODOR:** Light yellow liquid, Kerosene odor.

### SECTION 10 ✧ STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Heat, flame, sparks, strong oxidizing conditions.

**OTHER PHYSICAL AND CHEMICAL PROPERTIES:** Sulfur content = <0.5 wt. percent.

**MATERIALS TO AVOID:** Oxidizing agents such as oxygen, chlorine, nitric acid.

**HAZARDOUS POLYMERIZATION:** Has not been reported

### SECTION 11 ☼ TOXICOLOGICAL INFORMATION

#### KEROSENE

Materials similar to some components in this product were found to be mutagenic in “in vivo” tests. The exact relationships between these results and possible human effects is not known.

#### TOXICITY

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50(oral)</sub>	Rat	28,000 mg/kg	LD <sub>50(oral)</sub>	Rabbit	9,980 ppm	TD <sub>L0(oral)</sub>	Human	No Data

#### CARCINOGENICITY

<b>IARC</b>	Inadequate evidence in animals	Inadequate evidence in humans	Group 3: Not classifiable as a human carcinogen
<b>NTP</b>	Not Listed		
<b>California (Prop 65):</b> Not Listed	<b>NIOSH:</b> Not Listed	<b>ACGIH:</b> A3 - Confirmed animal carcinogen	<b>OSHA:</b> Not listed

#### MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

No data available.

#### STODDARD SOLVENT

Exposure to Stoddard solvent in the air can affect your nervous system and cause dizziness, headaches, or a prolonged reaction time. It can also cause eye, skin, or throat irritation. The liquid defats the skin. The substance may have effects on the central nervous system and destroy blood cells in rare cases of aplastic anemia.

#### TOXICITY

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50(oral)</sub>	Rat	>5 g/kg	LD <sub>50(oral)</sub>	Rat	No Data	TD <sub>L0(oral)</sub>	Human	No Data

#### CARCINOGENICITY

<b>IARC</b>	Inadequate evidence in animals	Inadequate evidence in humans	Group 3: Not classifiable as a human carcinogen
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#### MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

No data available.

### SECTION 12 ✧ ECOLOGICAL INFORMATION

**ACUTE EFFECTS:** No data available.

**CHRONIC EFFECTS:** No data available.

**DISTRIBUTION AND PERSISTENCE IN THE ENVIRONMENT:** No Data available.

### SECTION 13 ✧ DISPOSAL CONSIDERATIONS

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. By itself, the liquid is expected to be a RCRA ignitable hazardous waste, when disposed.

**SECTION 14 ★ TRANSPORTATION INFORMATION**

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations

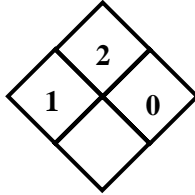
Agency	Shipping Name	Packing Group	Hazard Class	UN/NA #
U.S. DOT	Fuel Oil, Diesel, No. 2	III	Combustible Liquid	NA 1993

**SECTION 15 D REGULATORY INFORMATION**

No Data Available

**SECTION 16 ☼ OTHER INFORMATION**

NFPA 704 LABEL:



HMIS LABEL

1-2-0

MSDS REVISIONS: Change in Format and update of Information

MSDS CREATION DATE: July 1997

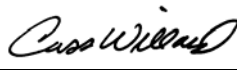
REVISION #1: 07/01/05

**DISCLAIMER**

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This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, such as refined petroleum hydrocarbon mixtures, this MSDS information may not be applicable.

MSDS DEVELOPER:

  
Cass Willard, CIH

DATE: 07/01/05