

MATERIAL SAFETY DATA SHEET

SECTION 1 ◆ PRODUCT AND COMPANY IDENTIFICATION

Explorer Pipeline Company
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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: Penex
Raffinate

CHEMICAL FAMILY: Mixture of C₄-
C₆, Hydrocarbons

EPL Code: 10

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

Flammable Liquid!!

- Clear liquid with petroleum odor;
- Harmful or fatal if swallowed, inhaled or absorbed through skin.
- 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 (%)
Mixture of C ₄ -C ₆ hydrocarbons	64741-70-4	100%

ACUTE

SUMMARY OF ACUTE HAZARDS: Harmful or fatal if swallowed, inhaled or absorbed through the skin. May cause CNS depression. Can produce skin irritation upon prolonged and/or repeated contact. If material is vomited and/or breathed into lungs chemical pneumonia can result.

GETTING IT IN YOUR EYE...

- May cause irritation.

GETTING IT ON YOUR SKIN...

- Transient, slight irritation. Prolonged or repeated contact may cause skin to become dry or cracked leading to dermatitis.
- May cause irritation.

SWALLOWING IT...

- May be harmful or fatal if swallowed.

BREATHING IT...

- Extreme overexposure or aspiration into the lungs may cause pneumonia.
- Vapors may be irritant to respiratory system. May cause CNS depression followed by dizziness and headache.

CHRONIC

➤ Chronic effects resemble the acute effects above.

CANCER, REPRODUCTIVE AND GENETIC EFFECTS

➤ No data available

See Toxicological Information (Section 11) For More Information

SECTION 4 + FIRST AID MEASURES

EMERGENCY MEDICAL TREATMENT PROCEDURES: Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350 mL for an average adult.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 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

Flammable vapors may be generated by material when mixed with air and exposed to an ignition source, vapors can burn in open areas or explode if confined. Vapors will be heavier than air and may travel long distances along the ground before igniting/flashing back to the vapor source. Clothing, rags or similar organic material contaminated with this product and stored in a closed space may undergo spontaneous combustion. Transfer to and from commonly grounded containers.

FLASH POINT:(Method Used) 28-200 °F

FLAMMABLE LIMITS:

LEL: 0.9%

UEL: 6.0%

AUTOIGNITION TEMPERATURE: No Data

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog. Water may be ineffective.

HAZARDOUS REACTIONS/DECOMPOSITION: Combustion may produce carbon monoxide, carbon dioxide, aldehydes, and reactive hydrocarbons. Incomplete combustion generates carbon monoxide, carbon dioxide and perhaps other toxic gases.

SPECIAL INSTRUCTIONS: Keep flames and sparks from stored liquid.

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

- 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)

Naphtha Hydrocarbons (Aromatic & Paraffinic)

TWA	STEL	TWA	STEL
100 ppm (Coal Tar Naphtha)	Not Applicable (N.A.)	400 ppm (Rubber Solvent)	N.A.

PERSONAL PROTECTIVE EQUIPMENT

- **EYES:** Safety glasses or chemical goggles with side shields. If splashing is anticipated, a face shield must be worn. Contact lenses should not be worn.
- **SKIN:** Oil and solvent impervious gloves, aprons, sleeves, boots, head and face protection should be worn when skin contact is possible. This equipment must be thoroughly cleaned and/or discarded after use.
- **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

BOILING POINT (760 MM HG): 4-428°F	PERCENT VOLATILE BY VOLUME: No Data
SPECIFIC GRAVITY (H₂O = 1 AT 39.2 °F): <1	VISCOSITY UNITS, TEMP: No Data
EVAPORATION RATE (BuAc = 1): Unavailable	VAPOR DENSITY (AIR =1): <1
VAPOR PRESSURE: No Data	SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Clear, petroleum odor.

SECTION 10 † STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

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

OTHER PHYSICAL AND CHEMICAL PROPERTIES: No Data

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

HAZARDOUS POLYMERIZATION: Will Not Occur

SECTION 11 † TOXICOLOGICAL INFORMATION

No Data Available

SECTION 12 † ECOLOGICAL INFORMATION

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

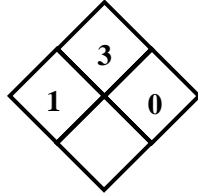
Agency	Shipping Name	Packing Group	Hazard Class	UN/NA #
U.S. DOT	Petroleum Naphtha	III	Flammable Liquid	UN 1255

SECTION 15 REGULATORY INFORMATION

No Data Available

SECTION 16 OTHER INFORMATION

NFPA 704 LABEL:



HMIS LABEL

1-3-0

MSDS REVISIONS: Change in Format and update of Information

MSDS CREATION DATE: July 1997

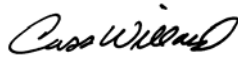
REVISION #1: 07/01/05

DISCLAIMER

The information in this MSDS was obtained from sources which we believe are reliable. **HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS ACCURACY.** Some conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. **FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.** All product measurements such as flash point, *etc.* are considered approximate values. All data provided by Explorer Pipeline Company.

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