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SECTION I - MATERIAL IDENTIFICATION  
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PRODUCT NAME: [REDACTED] KEROSENE  
SUPPLIER: BP North America Petroleum Inc.  
Three WestLake Park  
550 WestLake Park Blvd., Suite 1800  
Houston, Texas 77079  
Tel: (713) 558-3443  
EMERGENCY PHONE NUMBER: (800) 231-7817  
CHEMICAL NAME AND SYNONYMS: Petroleum Hydrocarbon, Kerosene  
CHEMICAL FAMILY: Hydrocarbon  
CAS REGISTRY NUMBER: 8008-20-6\*  
DOT HAZARD CLASSIFICATION: Combustible Liquid  
DOT HAZARDOUS MATERIALS SHIPPING NAME: Kerosene  
LABEL, REQUIRED: None  
IDENTIFICATION NUMBER: UN 1223

DESCRIPTION: Refined petroleum distilling within the range of 400 deg F (205 deg C) to 572 deg F (300 deg C), consisting of paraffins, naphthenes and aromatics. Product contains not more than 0.3% combined sulfur and 20% aromatic hydrocarbons.

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SECTION II - HAZARDOUS INGREDIENTS  
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Complex mixture of C9 - C16 petroleum hydrocarbons, 100 percent.

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SECTION III - HEALTH INFORMATION  
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This product as supplied may have sulfur levels ranging from less than 0.04% to 0.3% wt. Product not meeting K-1 specifications (<0.04% sulfur) is not suitable for use in flueless space heaters. Products of combustion of kerosene not meeting K-1 specifications in flueless space heaters or all grades in improperly maintained and adjusted flueless space heaters may contain harmful quantities of carbon monoxide, sulfur dioxide or other gasses or may reduce oxygen in non-ventilated areas.

The acute toxicity of this product has not been tested. However, test results from similar products show that it may be mildly irritating to the skin and eyes. Prolonged or repeated skin contact may cause de-fatting of the skin which may result in dermatitis or other skin disorders.

Exposure to high concentrations of mists or vapors may irritate the eyes, nose or throat, and may, in extreme cases, cause headache, nausea, dizziness or pulmonary irritation.

Aspiration of liquid into the lungs may cause chemical pneumonitis, the effects of which may be delayed, but could be serious or even fatal if not treated promptly.

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**SECTION IV - PHYSICAL DATA**  
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BOILING RANGE: (deg F/C)	Between 400/205 and 572/300 (approx.)
VAPOR PRESSURE AT 68 deg F/20 deg C: (mmHg)	0.4
DENSITY AT 68 deg F/20 deg C (kg/liter):	0.825
POUR POINT: (deg F/C)	Below 0/-18
VAPOR DENSITY: (Air = 1)	4.7
EVAPORATION RATE: (Water = 1)	Slower
PERCENT VOLATILE AT 100 deg F/38 deg C:	Negligible
SOLUBILITY IN WATER:	Negligible
APPEARANCE and ODOR:	Colorless to straw colored clear liquid with characteristic hydro-carbon odor.

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**SECTION V - FIRE AND EXPLOSION HAZARD DATA**  
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FLASH POINT: (TAG closed method) (deg F/C)	Above 100/38
AUTO IGNITION TEMPERATURE: (deg F/C)	Above 410/204
FLAMMABLE LIMITS IN AIR:	Lower: 0.7% Upper: 5.0%
EXTINGUISHING MEDIA:	Foam, carbon dioxide, dry chemicals, water fog, sand or earth.

**SPECIAL FIRE FIGHTING PRECAUTIONS:** Do not direct water directly into fire to avoid splatter, spread. Use water to cool surroundings. Avoid breathing fumes. Use self contained air supply if needed.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Product is a combustible liquid. Exposure to extreme heat may cause pressure in closed containers. Atomized mist or heated vapor may ignite with explosive violence. Because of very low electrical conductivity, product has capacity to develop an electrostatic potential when it is pumped and handled. Extreme caution must be used to insure proper bonding or grounding before transfer of products is started.

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**SECTION VI - HEALTH HAZARD DATA**  
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**HAZARD DESCRIPTION:** Combustible liquid. No acute effects from limited incidental contact. Ingestion may be accompanied by aspiration into lungs which can cause severe pneumonitis.

**EXPOSURE LIMITS:** 500 ppm threshold limit value (TLV) for vapors; 5 mg/m<sup>3</sup> for oil mist in air (8 hour time weighted average exposure, OSHA 29 CFR 1910.1000, Table Z-1).

**EMERGENCY FIRST AID**

**Eyes:** Flush with copious water for 15 minutes holding eyelids apart and away from eyeball. Seek medical advise if pain or redness develops and persists.

**Skin:** Wash skin with mild soap and water as soon as practicable after contact. Remove heavily contaminated clothing and wash any contaminated underlying skin. Launder clothing before re-use.

**Inhalation:** If inhalation of mists or vapors causes irritation of nose or throat, or coughing, remove patient to fresh air. Seek medical advice if symptoms persist, or if difficulty in breathing occurs.

**Swallowing:** Do not induce vomiting because of risk of aspiration. After spontaneous vomiting, monitor patient for difficult breathing. **EFFECT OF LIQUID IN LUNGS MAY BE DELAYED ONE OR TWO DAYS. IF SYMPTOMS PERSIST OR EXPOSURE IS SEVERE, SEEK PROMPT MEDICAL HELP.**

**NOTE TO PHYSICIAN:** Petroleum aspiration may cause severe pneumonitis ("oil pneumonia"). Vomiting should not be induced, and gastric lavage should be undertaken with consideration of endotracheal intubation, especially in an unconscious patient.

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SECTION VII - REACTIVITY DATA  
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STABILITY: Stable under normal conditions. Not chemically reactive.

CONDITIONS TO AVOID: Extreme heat and open flame.

MATERIALS TO AVOID: Contact with strong oxidizers (peroxides, chlorine, oxygen under pressure).

HAZARDOUS DECOMPOSITION OF PRODUCT: Volatile hydrocarbons from thermal decomposition; carbon monoxide from combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION VIII - ENVIRONMENTAL HAZARDS  
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This product is an "oil" under the Clean Water Act. Keep out of surface waters or any water courses or sewers leading to surface waters. Keep from entering ground waters.

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SECTION IX - SPILL, LEAK OR DISPOSAL PROCEDURES  
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Stop flow of product. Contain spill. Remove all sources of ignition. Evacuate all non-essential personnel. Clean up as soon as possible using proper protective equipment, booms, sorbents and containers. Keep out of surface waters and ground waters.

Notify local, state or federal agencies if required by law and comply with all applicable laws. Notify National Response Center if spill enters or threatens to enter surface waters - (800) 424-8802.

Maximize product recovery for reuse or recycling. Conditions of use may cause material to become state or federal "Hazardous Waste" as defined by applicable laws. Use only approved transporters, treatment and disposal sites.

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SECTION X - SPECIAL PROTECTIVE EQUIPMENT

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**CLOTHING:** Wear long sleeved clothing, gloves and other garments to limit skin contact. If splashing cannot be avoided, wear face and eye protection. Consider use of barrier creams if appropriate.

**RESPIRATORY:** Use only NIOSH approved respirator for organic mists to prevent overexposure in conditions where oil mist or vapors exceed occupational exposure limits. Use self contained breathing apparatus in emergencies where intense vapors, fumes, smoke, etc. is present.

**VENTILATION:** Local or mechanical ventilation sufficient to control exposure below TLV level. Explosion-proof where there is risk of ignition.

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Date of Preparation: November 18, 1985