

MATERIAL SAFETY DATA SHEET

Pacific Coast Chemicals Company

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Date Prepared: 6/15/12
Date Printed: 6/15/12

Product: **Kerosene**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Kerosene

Product Code: CH-8008206A

Chemical Formula: Not available.

General or Generic ID: Astral Oil; Coal Oil, Fuel Oil No. 5, Jet A Fuel; Jet Fuel JP-1; JP-5
Navy Fuel; Kerosine, petroleum; Range Oil; K1 Kerosene; Kerosene, hydrodesulfurized

Company

Pacific Coast Chemicals Company
2424 Fourth Street
Berkeley, CA 94710
510-549-3535

Emergency Telephone Number

1-800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Kerosene

CAS: 64742-81-0

Concentration: 100% by weight

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

Irritating to eyes, respiratory system and skin.
Harmful: may cause lung damage if swallowed.
Vapors may cause drowsiness and dizziness.

SAFETY STATEMENTS:

Keep out of the reach of children.
Keep container in a well ventilated place.
Keep away from sources of ignition. No smoking.
Do not breathe gas, fumes, vapor, or spray.
Do not empty into drains.
Take precautionary measures against static discharges.
Avoid release to the environment. Refer to special instructions/safety data sheet.
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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SEE SECTION 11 FOR OTHER TOXICOLOGICAL INFORMATION (ACUTE & CHRONIC HAZARDS)

4. FIRST AID MEASURES

EYES: For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN: In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INGESTION: Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

INHALATION: After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry powder, AFFF, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective on fire but can protect firefighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive pressure self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: COMBUSTIBLE

Keep container tightly closed. Isolate from oxidizers, heat and open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

Flash Point: Closed Cup, 38°C (100.4 °F)

NFPA CODES: Health = 2 Flammability = 2 Reactivity = 0

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6. PRECAUTIONS FOR SAFE HANDLING AND USE

PERSONAL PROTECTIVE MEASURES: EVACUATE DANGER AREA! Consult an expert! Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Filter respirator for organic vapors.

ENVIRONMENTAL PRECAUTIONS: Do NOT let this chemical enter the environment. Keep from entering storm sewers and ditches which lead to waterways.

CONTAINMENT AND CLEANUP MEASURES: Stop spill at source. Dike and contain. Absorb remaining liquid in sand or inert absorbent. Remove to safe place.

7. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

HANDLING: Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions! To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

STORAGE: Store large amounts in structures made for OSHA Class IIA liquids. Keep separated from strong oxidants. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY EXPOSURE CONTROLS: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION:

LOCAL EXHAUST - Necessary
MECHANICAL (GENERAL) - Acceptable
SPECIAL - None
OTHER - None

PERSONAL PROTECTIONS: Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material.

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Wash clothing before reuse.

WORK & HYGIENIC PRACTICES: Provide readily accessible eye wash stations & safety showers. Wash at end of each workshift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear/Yellow Liquid
ODOR:	Mild
ODOR THRESHOLD:	Not Available
pH (Neutrality):	Not Applicable
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	149 °C / 300 °F
GRAVITY @ 68/68 F / 20/20 C :	0.775 – 0.840
VAPOR DENSITY :	0.1 kPa

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): Isolate from oxidizers, heat, sparks, electric equipment & open flame.

INCOMPATIBILITY (MATERIAL TO AVOID): Isolate from strong oxidizers such as permanganates, chromates and peroxides.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

MATERIAL

Solvent Naphtha (Petroleum), Medium Aliphatic CAS #64742-88-7

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WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 2835 mg/kg [Rabbit.].

Acute dermal toxicity (LD50): Not available.

Acute toxicity of the vapor (LC50): Not available.

Acute Potential Health Effects:

Skin: Causes moderate to severe skin irritation. It can cause defatting dermatitis.

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract and mucous membrane irritation and a burning sensation

in the chest. Because of its relatively low volatility, overexposure by inhalation is uncommon, but

it can occur in poorly ventilated areas or by inhalation of mists or aerosols. Symptoms of inhalation overexposure include central nervous system (CNS) depression (transient euphoria, headache, irritability, excitement, ringing in the ears, weakness, in coordination, confusion, disorientation, drowsiness, tremor, somnolence, hallucinations, seizures, coma, and death).

May

affect the heart (cardiac arrhythmias), liver, kidneys, and respiration (asphyxia, apnea, acute pulmonary edema, dyspnea, fibrosis, or cyanosis)

Ingestion: Causes gastrointestinal tract irritation with burning sensation in mouth, esophagus, and stomach, abdominal pain, nausea, vomiting, hypermotility, diarrhea, headache, malaise.

May affect respiration/trachea/bronchi through accidental pulmonary aspiration which can cause

hypoxia, chemical pneumonitis, and non-cardiogenic pulmonary edema, pulmonary hemorrhage,

coughing, breathing difficulty, acute or chronic pulmonary edema, emphysema, respiratory stimulation. It may also affect the heart (dysrhythmias, myocardial depression, tachycardia), liver,

endocrine system (pancreas - hypoglycemia), behavior/central nervous system (symptoms similar to that of inhalation).

Chronic Potential Health Effects:

Inhalation: Repeated or prolonged inhalation may cause respiratory tract irritation and affect behavior/central nervous system with symptoms similar to that of acute inhalation. It may also affect the blood (changes in white blood cell count, changes in serum composition, pigmented or

nucleated red blood cells, leukopenia, normocytic anemia) , cardiovascular system, respiratory system (trachea, bronchi), and may cause kidney damage.

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Ingestion: Repeated or prolonged ingestion may affect the liver, endocrine system (adrenal gland, pancreas, spleen), and metabolism (weight loss), and blood.

Skin: Repeated or prolonged skin contact may cause defatting dermatitis, erythema, and eczema-like skin lesions, drying and cracking of the skin, and possible burns.

12. ECOLOGICAL INFORMATION

Not available.

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

14. DOT SHIPPING NAME

DOT PROPER SHIPPING NAME:

Kerosene,3,UN1223, PG-III

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

15. OTHER INFORMATION

DISCLAIMER:

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product

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is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication