

Material Safety Data Sheet for Kerosene**1. Chemical Product****MSDS Number:** U8012**MSDS Date:** 01-31-99**Product Name:** Kerosene

24 Hour Emergency Phone: (210) 979-8346
Transportation Emergencies: Call Chemtrec at 1-800-424-9300
MSDS Assistance: (210) 592-4593

Distributors Name and Address:

T.W. Brown Oil Co., Inc.
 1857 Knoll Drive
 Ventura, California 93003

Chemical Name: Kerosene**Cas Number:** 8008-20-6

Synonyms/Common Names: This Material Safety Data Sheet applies to the following product descriptions for Hazard Communication purposes only. Technical specifications vary greatly depending on the product, and are not reflected in this document. Consult specification sheets for technical information.

Kerosene	Dyed K-1 Kerosene	Dyed Highway #1 Diesel
K1 -Kerosene	JP-5	#1 Diesel Fuel, On-Road
Jet-A Turbine Fuel	JP-8	On-Highway #1 Diesel
Jet-Q Turbine Fuel	Turbine Fuel	Off-Road #1 Diesel
Low Aromatic Feedstock		

2. Composition, Information On Ingredients

Description: Kerosene is a complex mixture of hydrocarbons from a variety of chemical processes blended to meet standardized product specifications. Composition varies greatly and includes C9 to C16 hydrocarbons with a boiling range of about 300-550 degrees F. The following is a non-exhaustive list of common components, typical percentage ranges in product, and occupational exposure limits for each. Functional and performance additives may also be present at concentrations below reporting thresholds.

Component or Material Name	%	CAS Number	ACGIH Limits TLV -- STEL -- Units	OSHA Exposure Limits PEL -- STEL -- C/P -- Units
Hydrosulfurized Kerosene	0-100	64742-81-0	100* -- NA -- mg/m3	N/A -- N/A -- N/A -- N/A
Hydrotreated distillate light	0-100	64742-47-8	100* -- NA -- mg/m3	N/A -- N/A -- N/A -- N/A
Kerosene, straight run	0-100	8008 -20-6	100* -- NA -- mg/m3	N/A -- N/A -- N/A -- N/A

* The ACGIH has proposed adopting an exposure limit of 100 mg/m3 for Diesel fuel/Kerosene. NIOSH has also proposed 100 mg/m3 for an 8 hr. TWA or ~14 ppm 8 hr. TWA, based on an average molecular weight of 170 for kerosene like fractions. Product may contain traces of sulfur and benzene.

3. Hazards Identification

Health Hazard Data:

1. The major effect of exposure to this product is headache, drowsiness, irritation of the eyes and nose, and lungs. Target organs include the respiratory system, nervous system, and mucous membranes.
2. NIOSH recommends that whole diesel engine exhaust be regarded as a potential occupational carcinogen. Follow OSHA and NSHA rules where diesel engine exhaust fumes may be generated.
3. A life time skin painting study by the American Petroleum Institute has shown that similar naphtha products with a boiling range of 350-700 degrees F usually produce skin tumors and/ or skin cancers in laboratory mice. Only a weak to moderate response occurred. The effect to humans has not been determined. Contact dermatitis (skin irritation) may occur with prolonged or repeated contact.
4. IARC has listed kerosene as probably carcinogenic to humans based on sufficient evidence in experimental animals and limited evidence in humans.

Hazards of Combustion Products: Carbon monoxide and carbon dioxide can be found in the combustion products of this product and other forms of hydrocarbon combustion. Carbon monoxide in moderate concentrations can cause symptoms of headache, nausea, vomiting, increased cardiac output, and confusion. Exposure to higher concentrations of carbon monoxide can cause loss of consciousness, heart damage, brain damage, and/or death. Exposure to high concentrations of carbon dioxide can cause simple asphyxiation by displacing available oxygen. Combustion of this and other similar materials should only be carried out in well ventilated areas. The National Kerosene Heater Association has released preliminary test results that indicate no increased emissions of carbon monoxide or nitrogen dioxide resulted from using red-dyed kerosene in "new generation" heaters.