

MATERIAL SAFETY DATA SHEET

March 30, 2005

MSDS NUMBER W-3005
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<b>EMERGENCY TELEPHONE NUMBERS</b>	COMPANY 405-665-6500	CHEMTREC 800/424-9300
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**I. PRODUCT IDENTIFICATION**

PRODUCT KW - 1(Clear or Dyed)	CHEMICAL NAME AND SYNONYMS Kerosene, Low Sulfur Kerosene, 1-K Kerosene K1 Kerosene, Sweetened middle distillate, Hydrotreated Heavy Naphtha		
CHEMICAL FAMILY Petroleum Hydrocarbon Distillate	FORMULA C8 - C14		
National Fire Protection Association Hazard Rating Codes Least - 0      Slight - 1 Moderate - 2      High - 3      Extreme - 4	HEALTH CODE 0	FIRE CODE 2	REACTIVITY CODE 0

**II. SUMMARY OF HAZARDS**

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY. CAN CAUSE NERVOUS SYSTEM DEPRESSION. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Keep away from heat and flame. Avoid breathing vapor. Use ventilation adequate to keep vapor below recommended exposure limits. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

DOT Hazardous Material YES	DOT SHIPPING NAME AND NUMBER Kerosene, 3, UN1223, III	DOT HAZARD CLASS 3 (Combustible Liquid)
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**III. HAZARDOUS COMPONENTS**

INGREDIENT	% RANGE	PEL/TLV	HAZARD
Hydrotreated Heavy Naphtha (CAS # 64742-48-9)	75 - 100	Stoddard Solvent TWA - 100 ppm	Combustible Acute Health Chronic Health
Sweetened Middle Distillate (CAS # 64741-86-2)	0 - 25	Petroleum Distillate TWA - 400 ppm	

**IV. HEALTH INFORMATION**

EXPOSURE BY ROUTE OF ENTRY	EXPOSURE CHARACTERISTICS AND FIRST AID	
INHALATION	EFFECTS	Acute: Headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.
	FIRST AID	Move exposed person to fresh air. If breathing has stopped, perform artificial respiration. Get medical attention as soon as possible.
SKIN	EFFECTS	Acute: irritation  Chronic: dermatitis
	FIRST AID	If clothing soaked, immediately remove clothing and wash skin with soap and water. Launder clothing before wearing. Get medical attention promptly.
EYES	EFFECTS	Acute: irritation
	FIRST AID	Immediately flush eyes with water for a minimum of 15 minutes, occasionally lifting the lower and upper lids. Get medical attention promptly.
SWALLOWING INGESTION	EFFECTS	Acute: aspiration hazard, headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions and loss of consciousness.
	FIRST AID	Call a physician immediately, ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

Medical conditions Generally  
Agravated by Exposure

N/AV

LISTED AS POTENTIAL CARCINOGEN OR CARCINOGEN	NOT LISTED <u>  X  </u> INTERNATIONAL Agency for Research on Cancer _____	NATIONAL TOXICOLOGY PROGRAM _____ OSHA _____
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## V. EMPLOYEE PROTECTION

RESPIRATORY PROTECTION (NIOSH APPROVED RESPIRATORS SEE OSHA STD. 1910.134)

Up to 1000 ppm, half-mask organic vapor respirator. Up to 5,000 ppm, full-face organic vapor respirator or full-face supplied air respirator. Greater than 5,000 ppm, fire fighting, or unknown concentration, self-contained breathing apparatus with positive pressure.

	EYE	Safety glasses, chemical goggles or face shield as appropriate.
	SKIN	Gloves: Nitrile, neoprene or other material resistant to naphtha.

### VENTILATION

Maintain local or dilution ventilation to keep air concentration below 100 ppm. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

## VI. FIRE PROTECTION INFORMATION

FLASH POINT AND METHOD	AUTOIGNITION TEMPERATURE ESTIMATED	FLAMMABLE LIMITS % VOLUME IN AIR ESTIMATED	LOWER 0.7	UPPER 6
Tag Closed Cup 100 ' F	450 'F			

### EXTINGUISHING MEDIA

Carbon dioxide, dry chemical, or foam. Water stream may spread fire, use water spray only to cool containers exposed to fire. If leak or spill has not ignited, use water spray to disperse the vapors.

### HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion can yield carbon monoxide and various hydrocarbons.

### FIRE AND EXPLOSION HAZARDS

Can form combustible mixtures with air when heated.

### STORAGE

Do not store with strong oxidizers. Store as OSHA Class II combustible liquid.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR <input checked="" type="checkbox"/> MAY OCC <input type="checkbox"/>	STABILITY STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/>
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## VII. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT 310 - 470 'F	Reid VAPOR PRESSURE (RVP) at 100 'F ESTIMATED 1 pound	EVAPORATION (ETHYL ETHER = 1) ESTIMATED slower
PERCENT VOLATILE BY VOLUME (%) 100	AVG. MOLECULAR WEIGHT 145	APPEARANCE Clear Liquid (Red if dyed)
ODOR Kerosine	DROP POINT N/A	ESTIMATED VAPOR DENSITY (AIR = 1) 6
SPECIFIC GRAVITY 0.8	VISCOSITY 1.1 cs at 100 'F	SOLUBILITY (G/100g WATER AT 20° C) Negligible

