

Comet Chemical Company Ltd.

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Materials Safety Data - KEROSENE

Shipping Name	UN - 1223
Transport of Dangerous Goods Class	KEROSENE
WHMIS Class	Class 3; Packing Group III
Material Use	B 3; D 2B fuel, solvent

1. HAZARDOUS INGREDIENTS	CAS NUMBER	%	TWAEV (ppm)	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ mg/m ³ INHALATION
Kerosene	8006-20-6	100%	100	2800	2000	5000

2. PHYSICAL CHARACTERISTICS

Odour & Appearance	clear, colourless, liquid with pronounced petroleum odour
Odour Threshold	about .077 ppm or 0.55mg/m ³
Vapour Pressure	<0.2 kPa (20°C)
Vapour Density (air = 1)	4.5
Boiling Range	163°C - 204°C
Freezing Point	-54°C
Specific Gravity	0.79
Water Solubility	nil

3. FLAMMABILITY & REACTIVITY

Flash Point	47°C
Autoignition Temperature	227°C
Flammable Limits	1.1 - 6.0%
Hazardous Combustion Products	carbon monoxide, nitrogen oxides, smoke, hydrocarbon fumes
Firefighting Precautions	foam, dry chemical, water fog, water spray only to cool, product floats on water - water jet spreads flames; firefighters must wear SCBA
Sensitivity to Static Discharge	sensitive
Sensitivity to Mechanical Impact	not sensitive
Chemical Stability	stable; will not polymerize
Reactive With	strong oxidising agents
Dangerous Decomposition Products	none apart from "Hazardous Combustion Products"

4. TOXICOLOGY

EFFECTS OF ACUTE EXPOSURE

Skin Contact	drying, may irritate, causing rash – <i>Note that even modest dilution with (non-irritating) fluids makes kerosene virtually harmless to skin!</i>
Skin Absorption	slight, according to animal testing data
Eye Contact	vapour or liquid irritating; may cause permanent damage
Inhalation	irritating; headache, dizziness, drowsiness, intoxication
Ingestion	headache, dizziness, drowsiness, intoxication

(Kerosene, cont'd)

EFFECTS OF CHRONIC EXPOSURE

General	prolonged exposure may cause skin cracking and dermatitis; <i>Dermatitis is very common in workers whose hands are continuously exposed to kerosene.</i> repeated exposure may cause liver, adrenal gland and kidney damage, abnormal red cells
Sensitising	no
Carcinogenic	experimental tumorigen in rodents; no human effects documented; not considered a carcinogen
Reproductive Effect	no effects documented in animals or humans
Synergistic With	existing skin condition
Estimated LD ₅₀	2800 mg/kg (oral, rabbit), 5000 mg/kg (oral, rat), 20,000 mg/kg (oral, guinea pig)
Estimated LC ₅₀	2000 mg/kg (skin, rabbit) 5000 mg/m ³ (inhalation, rat)

5. PROTECTIVE EQUIPMENT

Hands	“Viton” gloves best; nitrile rubber gloves may be acceptable
Eyes	chemical safety goggles
Respirator	not required if ventilation is adequate (see TWAEV, (1) above), or use organic vapour cartridge
Clothing	impervious (hands, above) apron, boots, long sleeves, if splashing is anticipated

6. ENVIRONMENT

Leak Precaution	dyke to control spillage and prevent environmental contamination
Handling Spill	ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an inert
Waste Disposal	soorbent (dry sand, earth) and store in closed containers for disposal do not flush to sewer ; may be incinerated in approved facility

7. STORAGE & HANDLING

Store and use in a cool dry environment, away from sources of ignition, heat and oxidising agents. Use with adequate ventilation. This product is a static accumulator. Ground the container before handling to prevent static discharge which may cause ignition. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

8. FIRST AID

SKIN:	Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is any irritation.
INHALATION:	Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION:	Give plenty of water or milk to dilute product. Do not induce vomiting (see NOTE below). Keep victim quiet. If vomiting occurs, keep victim's head below the hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this product. The stomach should be emptied under medical supervision, after the installation of an airway to protect the lungs.

Emergency telephone numbers - weekdays from 8:00 - 5:00 (705) 436-5580
at all other times (800) 567-7455 (Philip Environmental)

Prepared for Comet Chemical Co. Ltd., by *Nicholas Morgan, October 2002; Revised August 2005*

The information herein is given in good faith but no warranty, expressed or implied, is made.

PLEASE ENSURE THAT THIS MSDS IS GIVEN TO AND EXPLAINED TO THE PERSON USING THIS PRODUCT.

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