

Comet Chemical Company Ltd.

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Materials Safety Data - COMSOL 100

Shipping Name	UN - 1268
Transport of Dangerous Goods Class	PETROLEUM DISTILLATES, N.O.S.
WHMIS Class	Class 3; Packing Group III
Material Use	B 3; D 2B high flash point solvent

1. HAZARDOUS INGREDIENTS	CAS NUMBER	%	TWAEV (ppm)	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ (ppm) INHALATION
Light Aromatic Naphtha (Contains about 30% of Trimethylbenzene, Cumene, and Xylenes.)	64742-95-6	100%	50	>8400	not known	>18,000

2. PHYSICAL CHARACTERISTICS

Odour & Appearance	clear colourless liquid with aromatic hydrocarbon odour
Odour Threshold	not known
Vapour Pressure	1.3 kPa (38°)
Vapour Density (air = 1)	4.1
Boiling Point	159°C - 170°C
Freezing Point	-53°C
Specific Gravity	0.870
Water Solubility	0.1% (20°C)

3. FLAMMABILITY & REACTIVITY

Flash Point (most flammable component)	41°C
Autoignition Temperature (lowest)	465°C
Flammable Limits	0.6% - 7%
Hazardous Combustion Products	carbon monoxide, nitrogen oxides
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	defatting, drying, may irritate
Skin Absorption	slight; no toxic effects anticipated by this route
Eye Contact	irritating; may damage eyes; vapour irritating above 1000 ppm
Inhalation	irritating above 1000 ppm; headache, dizziness, drowsiness, intoxication
Ingestion	headache, dizziness, drowsiness, intoxication

(Comsol 100, cont'd)

EFFECTS OF CHRONIC EXPOSURE

General	prolonged exposure may cause skin cracking and dermatitis; weight loss in rodents exposed to 1300 ppm (well above the level which is strongly irritating)
Sensitising	no
Carcinogenic	no
Reproductive Effect	experimentally fetotoxic in rodents at 1500 ppm, none known in humans
Synergistic With	aggravates existing dermatitis
Estimated LD ₅₀	8400 mg/kg (oral, rodent)
Estimated LC ₅₀	over 18,000 ppm (inhalation, rodent)

5. PROTECTIVE EQUIPMENT

Hands	“Viton” gloves best; nitrile gloves O.K.
Eyes	safety glasses with side shields or chemical goggles
Respirator	not required if ventilation is adequate (see TWAEV, (1) above)
Clothing	impervious (hands, above) apron , boots, long sleeves, if splashing is anticipated

6. ENVIRONMENT

Leak Precaution	dyke to control spillage and prevent environmental contamination; if fire potential exists , blanket with foam as a precaution
Handling Spill inert	ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an sorbent (dry sand, earth) and store in closed containers for disposal
Waste 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. Ground the container before handling to prevent static discharge which may cause ignition of this product or another flammable substance in the workplace. 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 to dilute product . Do not induce vomiting (see 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, September 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