

Comet Chemical Company Ltd.

3463 Thomas Street Innisfil, ON L9S 3W4
Tel: (705) 436-5580 Fax: (705) 436-7194



Materials Safety Data - MINERAL SPIRITS:

Comsol 3139, Comsol DX3139, Comsol 3135, Comsol D3135

(also Stoddart Solvent, De-odourised Mineral Spirits) *Product cleaned*

UN - 1268 *Enamel, Poly & Solvent*

Shipping Name

PETROLEUM DISTILLATES, N.O.S.

Transport of Dangerous Goods Class

Class 3; Packing Group III

WHMIS Class

B 2; D 2B

Material Use

solvent, diluent, fuel

1. HAZARDOUS INGREDIENTS*	CAS NUMBER	%	TWAEV (ppm)	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ ppm INHALATION
(a) Aliphatic Naphtha 3139			100	5000	3000	5000
(b) Aliphatic Naphtha Comsol DX 3139	8052-41-3	100%	100	5000	3000	5500
(c) Aliphatic Naphtha 3135	or		200	5000	3000	5000
(d) Aliphatic Naphtha D3135	64742-47-8		300	5000	3000	5500

NOTE: These various grades or mineral spirits are similar, share the same CAS#, and thus share the same MSDS.

2. PHYSICAL CHARACTERISTICS*

Odour & Appearance	clear, colourless, liquid, mild petroleum odour (less odour with DX 3139)			
Odour Threshold	not known			
Vapour Pressure	(a) 2.28 mmHg;	(b) 2.17 mmHg;	(c) 2.24 mmHg	(d) 2.3 mmHg (all at 20°C)
Vapour Density (air = 1)	(a) 5.0,	(b) 4.9	(c) 4.7	(d) 4.8
Boiling Range	(a) 158°C-195°C	(b) 159°C-195°C	(c) 156°C-178°C	(d) 158°C-177°C
Freezing Point	(a) -58°C,	(b) -55°C,	(c) -56°C	(d) -61°C
Specific Gravity	(a) 0.785,	(b) 0.777,	(c) 0.784	(d) 0.766 (all at 20°C)
Water Solubility	nil	nil	nil	nil

*NOTE: This is not meant to be a product specification. The various grades of Mineral Spirits are all identified by the same CAS# and pose the same hazards to users and to the environment. They are therefore covered by one MSDS.

3. FLAMMABILITY & REACTIVITY

Flash Point	(a) 43°C,	(b) 43°C,	(c) 43°C	(d) 41°C
Autoignition Temperature	(a) 229°C,	(b) 254°C,	(c) 243°C	(d) 216°C
Flammable Limits	(a) 1% - 13.3%	(b) 0.9% - 7.0%	(c) 2.3% - 12.1%	(d) 1.4% - 8.1%
Hazardous Combustion Products	carbon monoxide, nitrogen oxides, smoke			
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 on long exposure
Skin Absorption	slight, no toxic effects anticipated by this route
Eye Contact	irritating; will not damage eyes
Inhalation	at over 1000 ppm: irritating; may cause headache, dizziness, drowsiness, intoxication
Ingestion	low toxicity; accidental inhalation of liquid or vomited material into lungs likely to cause inhalation pneumonia

(Mineral Spirits, cont'd)

EFFECTS OF CHRONIC EXPOSURE

General	prolonged exposure may cause skin cracking and dermatitis prolonged exposure of male rats to 330 ppm of vapour has caused kidney damage; no known effect in humans has been reported
Sensitising	no
Carcinogenic	3139 contains ethylbenzene; 750ppm ethylbenzene for life is tumorigenic in rodents no such effect has been observed in humans
Reproductive Effect	none known in humans
Synergistic With	not known
Estimated LD ₅₀ , LC ₅₀	(see Table in (1) above)

5. PROTECTIVE EQUIPMENT

Hands	"Viton" or nitrile gloves recommended
Eyes	safety glasses with side shields
Respirator	not required, unless material is hot and vapour is emitted; then mechanical ventilation required, and a respirator with organic vapour cartridge may be needed (see TWAEV, (1) above)
Clothing	not required

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. **Caution – cloth or paper soaked in these products may undergo spontaneous ignition. Never discard wiping cloths soaked in mineral spirits carelessly. Dry carefully before discarding.** Use with adequate ventilation. Ground the container before handling to prevent static discharge, which may cause ignition of this product or other products 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 (NOTE below). Keep victim quiet. If vomiting occurs, keep victim's head below 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

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.