

Comet Chemical Company Ltd.

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Materials Safety Data - **ESTER EEP**

UN - 1993

Shipping Name

FLAMMABLE LIQUID, N.O.S.
(ETHYL ETHOXY PROPIONATE)

Transport of Dangerous Goods Class

Class 3; Packing Group III

WHMIS Class

B 3

Material Use

paint solvent, chemical intermediate

1. HAZARDOUS INGREDIENTS

	CAS NUMBER	%	TWAEV (ppm)	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ ppm INHALATION
Ethyl 3-Ethoxypropionate	763-69-9	100%	not listed	5000	10,000	not known

2.

PHYSICAL CHARACTERISTICS

Odour & Appearance	clear, colourless, liquid with a mild ether odour
Odour Threshold	not known
Vapour Pressure	0.9 mmHg (20°C)
Vapour Density (air = 1)	5
Boiling Point	170°C
Freezing Point	-100°C
Specific Gravity	0.950 (20°C)
Water Solubility	3% (20°C)

3.

FLAMMABILITY & REACTIVITY

Flash Point	58°C (closed cup)
Autoignition Temperature	377°C
Flammable Limits	not known
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	not sensitive
Sensitivity to Mechanical Impact	not sensitive
Chemical Stability	stable; will not polymerize
Reactive With	strong oxidising agents
Dangerous Decomposition Products	may form explosive peroxides on prolonged storage in contact with air

4.

TOXICOLOGY

EFFECTS OF ACUTE EXPOSURE

Skin Contact	little effect; may be a mild irritant
Skin Absorption	yes; no toxic effects anticipated by this route
Eye Contact	irritating
Inhalation	low vapour pressure makes inhalation unlikely
Ingestion	little effect; stomach ache and nausea may occur

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EFFECTS OF CHRONIC EXPOSURE

General	prolonged exposure may cause skin cracking and dermatitis
Sensitising	no
Carcinogenic	no effects documented in humans
Reproductive Effect	no effects documented in humans
Synergistic With	not known
Estimated LD ₅₀	5000 mg/kg (oral, rat); 10,000 mg/kg (skin, rabbit)
Estimated LC ₅₀	not known

5. PROTECTIVE EQUIPMENT

Hands	nitrile gloves recommended but not required
Eyes	chemical safety goggles
Respirator	not required if ventilation is adequate, but organic vapour cartridge may be used
Clothing	no special protective equipment 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. Explosive peroxides may form on prolonged storage in the presence of oxygen. If prolonged storage of partly filled containers is anticipated, flush headspace with nitrogen before sealing. Use with adequate ventilation. 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 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, November 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.