

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION.

Trade Name: **Ethoxy Propanol**

Synonyms: 1-ethoxy-2-propanol * Propylene glycol monoethyl ether *

Manufacturer/Supplier: Central Chemical Supplies Limited
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2. HAZARD IDENTIFICATION.

Prolonged or repeated contact with skin will defect tissue and may cause irritation. Exposure to high concentrations may cause irritation of the eyes, nose and throat and depression of central nervous system leading to drowsiness and loss of consciousness.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical	% Conc	Classification	Exposure	CAS	EINECS
Ethoxy propanol	99	R10, R67			1569-02-4

4. FIRST AID MEASURES.

Exposure route	Symptom	Treatment
Inhalation	Irritation of nose, throat and respiratory tract. Central nervous system depression, drowsiness, loss of consciousness.	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin contact	Irritation.	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention.
Eye contact	Irritation and transient corneal damage.	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
Ingestion	Central nervous system depression, drowsiness, loss of consciousness.	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water

to drink. If patient feels unwell seek medical attention.
Immediate treatment/antidote: Symptomatic and supportive treatment suggested.

5. FIRE FIGHTING MEASURES

Suitable extinguishers: Water spray, alcohol foam, dry chemical or CO₂.
Hazardous combustion products: Oxides of carbon.
Special equipment for fire fighting: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Safety precautions: Wear appropriate PPE – see section 8.
Environmental precautions: Prevent entry into drains and water courses. Inform appropriate authority of any release to water courses.
Clean up procedure: Contain large spillages with sand or earth and collect in suitable containers for disposal. Wash spill site with plenty of water after material has been taken up.

7. HANDLING AND STORAGE

Handling

Ventilation: Good general ventilation.
Recommended procedures and equipment: Avoid inhaling vapour. Avoid contact with skin and eyes. Keep container tightly closed when not in use.

Storage

Temperature range: Cool.
Humidity range: Dry.
Keep away from: See section 10.
Suitable storage media: Carbon steel, polypropylene, lined steel, stainless steel.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: 200 ppm Type: Manufacturers suggestion.

Monitoring method

Protective measures

Respiratory: Type approved RPE for organic vapours and mists if required.
Hand: PVC or Butyl rubber gloves.
Eye: Chemical goggles.
Skin: Overalls.
Hygiene measures: Always wash thoroughly after handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid.
Odour:	Mild.
Boiling point/range:	132°C
Melting point/range:	-90°C
Flash point:	40°C
Autoignition temperature:	255°C
Explosive limits:	1.3 – 12.0% v/v
Vapour pressure:	10 mbar @ 20°C
Relative density:	0.896 @ 20°C
Solubility:	Completely soluble in water.

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	High temperatures.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Effects:	Low order of acute toxicity. Slightly irritating to skin, irritating to eyes causing transient corneal damage. May be absorbed through skin. No indication of mutagenic or toxic for reproduction effects in animal tests.
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LD ₅₀	> 4000 mg/kg	Oral-rat	> 8000 mg/kg	Skin-rabbit
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12. ECOLOGICAL INFORMATION

Environmental effects

Mobility:	Product is involatile, water soluble and will partition to the aqueous phase.
Degradability:	Readily biodegradable; BOD ₂₈ = 68% of ThOD.
Bioaccumulative potential:	Not expected to bioaccumulate. Predicted bioconcentration factor (BCF) = 1
Aquatic toxicity:	EC ₁₀ , bacteria = 4600 mg/l; LC ₀ , fish > 10 000 mg/l.

Water endangering classification = WGK 0
(manufacturers classification).

13. DISPOSAL

Substance: Via an authorised waste disposal contractor to an approved waste disposal site.

Container: As substance. Used containers must not be cut up or punctured until completely purged of product residues.

14. TRANSPORT INFORMATION

UN no: 1987 ADR class/item no: 3, 31^o(c)

Primary hazard: Flammable liquid

Packing group: III Emergency action code: 3 [Y]

H.I. no: 30

Proper shipping name: Alcohol, flammable, NOS (ethoxypropanol).

15. REGULATORY INFORMATION

Hazard symbol(s): None.

Risk phrase(s): R10 – Flammable.
R67 – Vapours may cause drowsiness and dizziness

Safety phrase(s): S(2) – Keep out of the reach of children
S24 – Avoid contact with the skin.

16. OTHER INFORMATION

Disclaimer

The information contained in this document is intended to describe the product only in terms of health, safety and environmental requirements for the purposes of its safe handling, use and disposal and is to the best of Central Chemical Supplies Limited knowledge and belief correct. Central Chemical Supplies Limited Technical Services will be pleased to give further advice and assistance, but customers must satisfy themselves (by appropriate testing if necessary) that the product is suitable for their purposes and conditions of use and that their facilities and arrangements are suitable for handling or using the product. Accordingly Central Chemical Supplies Limited disclaims any liability for loss, injury or damage which may result from the use of the product, this information or from such advice and assistance save as may be expressly agreed under its terms of sale. This information does not comprise a technical or performance specification for the product and customers are referred to any relevant product technical information or specification issued by Central Chemical Supplies Limited.

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