



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Glycol Ether EP
2. CHEMICAL NAME: Ethanol, 2-propoxy
3. SYNONYMS:
4. CAS NUMBER: 2807-30-9
5. COMPOSITION: Ethanol, 2-propoxy (2807-30-9)
100%

**IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887**

6. PROPERTIES: ODOR & APPEARANCE: clear, colorless liquid with mild sweetish ether odor
ODOR THRESHOLD: not known
VAPOUR PRESSURE: approx. 2.9mmHg/0.39kPa (20 c)
EVAPORATION RATE (butyl Acetate=1): 0.2
VAPOR DENSITY (air=1): 4
BOILING RANGE: 150 c/304 F
FREEZING POINT: -90 F/-130 F
SPECIFIC GRAVITY: 0.913 (20/20 c)
WATER SOLUBILITY: complete
IN OTHER SOLVENTS: soluble in most organic solvents
VISCOSITY: not known – approx. 3centipoise (25 c)
PH: none – does not liberate hydrogen ions when dissolved
7. HAZARDS: HMIS (USA): Health - 2, Fire - 2, Reactivity - 0
MATERIAL USE: solvent for coatings and water based cleaners
8. FIRE FIGHTING INFORMATION: FLASH POINT: 49 C (closed cup)
AUTOIGNITION TEMPERATURE: 235 C
FLAMMABLE LIMITS: not known
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments.
FIREFIGHTING PRECAUTIONS: foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA
STATIC DISCHARGE: cannot accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents
DECOMPOSITION PRODUCTS: may form explosive peroxides on prolonged storage in contact with air.
9. PERSONAL PROTECTION MEASURES: HANDS: nitrile or “Viton” gloves recommended – consult supplier to conform suitability
EYES: safety glasses with side shields or chemical goggles – always protect the eyes
VENTILATION: not required unless product mist or vapor is created by handling
CLOTHING: no special protective clothing required
10. FIRST AID PROCEDURES: 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 irritation.
INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger



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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, lower 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 relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

11. EXPOSURE TWAEV ppm/mg/m³: 20/85
LIMITS: LD50 ORAL: 1775
SKIN (mg/kg): 870
LC50ppm INHALATION: 1530

12. TOXICOLOGICAL EFFECTS ACUTE EXPOSURE
INFORMATION: SKIN CONTACT: little to no effect
SKIN ABSORPTION: yes; no toxic effects likely by this route
EYE CONTACT: irritating, may injure eyes
INHALATION: vapor may irritate, exposure of rabbits to saturated vapor concentrations for 7 hours resulted in blood in urine, but no mortality
INGESTION: may cause stomach discomfort, likely to cause headache, dizziness, drowsiness
EFFECTS OF CHRONIC EXPOSURE
GENERAL: prolonged exposure may cause dermatitis; exposure of rabbits to saturated vapor for 7 hours caused blood in the urine and kidney damage
SENSITISING: not a sensitizer
REPRODUCTIVE EFFECT: no known effect on humans and animals
SYNERGISTIC WITH: not known
LD50: 3090 & 4450mg/kg (oral, rat), 1775 & 2400mg/kg (oral, mouse), 870mg/kg (skin, rabbit), 1000mg/kg (skin guinea pig)
LC50: 1530ppm (inhalation, mouse), 2300ppm (inhalation, rat)

13. ECOLOGICAL This product cannot accumulate in living tissue, based on similar substances, this product is readily and
INFORMATION: rapidly biodegradable in the presence of oxygen; half-life in air estimated as 18 hours.

14. DISPOSAL DO NOT FLUSH TO SEWER; may be incinerated in approved facility.
CONSIDERATIONS:

15. CARCINOGENIC Not considered a tumorigen or a carcinogen in humans or animals.
PROPERTIES &
NOTIFICATIONS:

16. TRANSPORT USA 49 CFR
INFORMATION: Product identification number: UN – 1993
Shipping name: Flammable liquids, N.O.S (ethylene glycol propyl ether)
Classification: Class 3; Packing group III
Label: Flammable liquid, Class 3
Class: B3

17. HANDLING & Store and use a cool dry environment, away from sources of ignition, heat and oxidizing agents. If pro-
STORAGE: longed storage of a part drum is anticipated, flush headspace with nitrogen prior to sealing. Electrical and mechanical equipment used with or around this product should be explosion-proof. Use with adequate



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ventilation. 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.

18. ACCIDENTAL LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination. Fire Potential: blanket spill with foam as a precaution against accidental ignition. Take care to avoid sparks – do not operate (turn on OR off) electrical appliances near spill, unless explosion proof.
- MEASURES: HANDLING SPILL: ventilate contaminated area thoroughly; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for recycling and disposal.

19. REGULATORY ATMOSPHERIC STANDARDS

INFORMATION: This action promulgates standards of performance for equipment leaks of Volatile Organic Compounds (VOC) in the Synthetic Organic Chemical Manufacturing Industry (SOCMI). The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non air quality health and environmental impact and energy requirements. Ethylene glycol mono-propyl ether is produced, as an intermediate or final product, by process units covered under this subpart.