



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 EE Acetate
2. CHEMICAL NAME: Ethylene Glycol Monoethyl Ether Acetate
3. SYNONYMS:
4. CAS NUMBER: 111-15-9
5. COMPOSITION: Ethylene Glycol Monoethyl Ether Acetate (111-15-9) - 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, pleasant odor
ODOR THRESHOLD: approx. 0.1ppm
VAPOUR PRESSURE: approx. 2.3mmHg/0.3kPa (20 c)
EVAPORATION RATE (butyl Acetate=1): 0.2
VAPOR DENSITY (air=1): 4.7
BOILING RANGE: 156 c/314 F
FREEZING POINT: -62 F/-79 F
SPECIFIC GRAVITY: 0.975 (20/20 c)
WATER SOLUBILITY: 230 grams per liter (20 c/20 c)
IN OTHER SOLVENTS: soluble in organic solvents
VISCOSITY: 1.35 centipoise (20 c)
PH: none – does not liberate hydrogen ions when dissolved
FLASH POINT: 47 c/117 F (closed cup)
AUTOIGNITION TEMPERATURE: 380 c/716 F
FLAMMABLE LIMITS: 1.7% - 10.1% 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: may accumulate a static charge – high viscosity makes static charge development unlikely
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents; strong acids or alkalies
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion Products

7. HAZARDS: HMIS (USA): Health - 2, Fire - 2, Reactivity - 0

8. FIRE FIGHTING INFORMATION: Foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA.

9. PERSONAL PROTECTION MEASURES: HANDS: butyl rubber “Barricade” gloves recommended – consult supplier to confirm suitability
EYES: safety glasses with side shields – 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.



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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, 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 DANGEROUS TO LIFE OR HEALTH (IDLH): 500 ppm

LIMITS: OSHA STANDARDS: Permissible Exposure Limit: Table Z-1 8-hr Time-Weighted Avg: 100 ppm (540mg/cu m). Skin Designation.

NIOSH RECOMMENDATIONS: NIOSH recommends reducing exposure to lowest feasible concn & preventing contact with the skin. /Glycol ethers/ Recommended Exposure Limit: 10 Hr Time-Weighted Avg: 0.5ppm (2.7mg/cu m). Skin.

THRESHOLD LIMIT VALUES

8 hr Time Weighted Avg (TWA): 5ppm, skin. Excursion Limit Recommendation: Excursions in worker exposure levels may exceed three times the TLV-TWA for no more than a total of 30min during a work day, and under no circumstances should they exceed five times the TLV-TWA, provided that the TLV-TWA is not exceeded. Biological Exposure Index (BEI): Determinant: 2-ethoxyacetic in urine; Sampling Time: end of shift at end of workweek; BEI 100mg/g creatinine.

TWAEV ppm/mg/m³: 5/27 (skin)

LD50 ORAL: 1950

SKIN (mg/kg): 10,250

LC50ppm INHALATION: 2240

12. TOXICOLOGICAL EFFECTS ACUTE EXPOSURE

INFORMATION: SKIN CONTACT: little to no effect

SKIN ABSORPTION: slight; no toxic effects likely by this route

EYE CONTACT: mildly irritating, will not damage eyes

INHALATION: headache, dizziness, drowsiness, nausea, possible coma; however, low vapor pressure greatly reduces risk of inhalation

INGESTION: headache, dizziness, drowsiness, nausea – not expected route of industrial exposure

EFFECTS OF CHRONIC EXPOSURE

GENERAL: prolonged exposure may cause dermatitis; although long exposure to Glycol Ether EE is suspected of leading to blood and immune disease, at this time no such link can be made with EE Acetate

SENSITISING: not a sensitizer

REPRODUCTIVE EFFECT: some evidence of reproductive toxicity in rodents; no known effect in humans

SYNERGISTIC WITH: not known

LD50: 2700mg/kg (oral, rat), 1950mg/kg (oral, mouse & guinea pig), 10,250mg/kg (skin, rabbit); 19,460mg/kg (skin, guinea pig)

LC50: 2240ppm (inhalation, rat)

13. ECOLOGICAL This product cannot accumulate in living tissue; this product is readily and rapidly biodegradable in the presence of oxygen; 80% biodegradation in 20 days in water; estimated half-life in air, 1.2 days.

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

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

16. TRANSPORT INFORMATION: USA 49 CFR
Product identification number: UN – 1172
Shipping name: Ethylene Glycol Ether Acetate
Classification: Class 3; Packing Group iii
Label: flammable liquid, Class 3
WHMIS Class: B3, D 2A

17. HANDLING & STORAGE: Store in a cool dry environment, away from sources of ignition, heat and oxidizing agents. Use with adequate 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 RELEASE MEASURES: LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination.
HANDLING SPILL: ventilate contaminated area: recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for recycling or disposal. IMMEDIATELY

19. REGULATORY INFORMATION: DANGEROUS TO LIFE OR HEALTH (IDLH): 500 ppm
OSHA STANDARDS: Permissible Exposure Limit: Table Z-1 8-hr Time-Weighted Avg: 100 ppm (540mg/cu m). Skin Designation.
NIOSH RECOMMENDATIONS: NIOSH recommends reducing exposure to lowest feasible concn & preventing contact with the skin. /Glycol ethers/ Recommended Exposure Limit: 10 Hr Time-Weighted Avg: 0.5ppm (2.7mg/cu m). Skin.
THRESHOLD LIMIT VALUES
8 hr Time Weighted Avg (TWA): 5ppm, skin. Excursion Limit Recommendation: Excursions in worker exposure levels may exceed three times the TLV-TWA for no more than a total of 30min during a work day, and under no circumstances should they exceed five times the TLV-TWA, provided that the TLV-TWA is not exceeded. Biological Exposure Index (BEI): Determinant: 2-ethoxyacetic in urine; Sampling Time: end of shift at end of workweek; BEI 100mg/g creatinine.
ATMOSPHERIC STANDARDS: 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 monoethyl ether acetate is produced, as an intermediate or final product, by process units covered under this subpart.
FDA REQUIREMENTS
Ethylene glycol monoethyl ether acetate is an indirect food additive for use only as a component of adhesives.