

1. PRODUCT NAME: Glycol Ether DB
2. CHEMICAL NAME: Diethylene Glycol Monobutyl Ether
3. SYNONYMS:
4. CAS NUMBER: 112-34-5
5. COMPOSITION: Diethylene Glycol Monobutyl Ether (112-34-5)
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 very slight odor
ODOR THRESHOLD: not known
VAPOUR PRESSURE: 0.02mmHg/0.0031Pa (20 c)
EVAPORATION RATE (butyl Acetate=1): 0.002
VAPOR DENSITY (air=1): 5.6
BOILING RANGE: 231 c/448 F
FREEZING POINT: -68 c/-90 F
SPECIFIC GRAVITY: 0.954 (20/20 c)
WATER SOLUBILITY: complete
IN OTHER SOLVENTS: soluble in alcohols, ketones and oils
VISCOSITY: 5.2 centipoise (20 c)
PH: none – does not liberate hydrogen ions in solution

7. HAZARDS: HMIS (USA): Health - 1, Fire - 2, Reactivity - 0
MATERIAL USE: solvent for resins, enamels, cellulose nitrate; plasticiser

8. FIRE FIGHTING INFORMATION: FLASH POINT: 78 c/172 F (closed cup)
AUTOIGNITION TEMPERATURE: 204 c/400 F
FLAMMABLE LIMITS: 0.9% - 25%
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: will not accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion Products

9. PERSONAL PROTECTION MEASURES: HANDS: butyl rubber, neoprene rubber, or “Viton” gloves
EYES: safety glasses with side shields – always protect eyes
VENTILATION: PROBABLY not required due to low vapor pressure – unless vapor created through heating or mist through agitation
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: not listed
LIMITS: LD50 ORAL: 2000
SKIN (mg/kg): 2700
LC50ppm INHALATION: not known

12. TOXICOLOGICAL EFFECTS ACUTE EXPOSURE
INFORMATION: SKIN CONTACT: mild irritant
SKIN ABSORPTION: yes, slowly; toxic effects unlikely, but possible by this route
EYE CONTACT: moderate to severely irritating, may damage eyes
INHALATION: low vapor pressure makes inhalation unlikely except at elevated temperature when headache, nausea dizziness may occur
INGESTION: headache, dizziness, drowsiness, intoxication & vomiting; mental confusion and slurred speech, rapid heart rate, rapid breathing, bluish skin & stupor are possible
EFFECTS OF CHRONIC EXPOSURE
GENERAL: prolonged absorption causes liver and kidney damage, and red cell haemolysis (blood in urine) in laboratory animals; no such effects have been seen in humans
SENSITISING: not a sensitizer
REPRODUCTIVE EFFECT: not known
SYNERGISTIC WITH: not known
ESTIMATED LD50: 2200mg/kg (oral,rabbit), 2400mg/kg & 6050mg/kg (oral, mouse), & 4500 & 5560mg/kg (oral, rat); 2000mg/kg (oral, guinea pig); 2700mg.kg (skin, rabbit)
ESTIMATED LC50: not known

13. ECOLOGICAL this product cannot accumulate in living tissue; diluted, this product is readily and rapidly in a wastewater
INFORMATION: treatment facility; in BOD test, 88% degraded in 28 days; half-life in air estimated as 10 hours

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

15. CARCINOGENIC Not known
PROPERTIES &
NOTIFICATIONS:

16. TRANSPORT USA 49 CFR
INFORMATION: Product identification number: UN – not regulated for transport
Shipping name: not regulated for transport
Classification: not regulated for transport
Label: none – not regulated for transport
WHMIS Class: B 3, D 2B



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17. HANDLING & STORAGE: Store and use a cool (below 80 c/175 F), dry environment, away from sources of ignition, heat and oxidizing agents. 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.
RELEASE HANDLING SPILL: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue
MEASURES: on an inert sorbent, sweep, shovel & store in closed containers for disposal.
19. REGULATORY INFORMATION: ALLOWABLE TOLERANCE: Diethylene glycol monobutyl ether is exempted from the requirement of a tolerance when used as a deactivator for formulations used before crop emerges from soil or as a stabilizer in accordance with good agricultural practices as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops.
- NIOSH RECOMMENDATIONS
NIOSH recommends reducing exposure to lowest feasible concn & preventing contact with the skin. /Glycol ethers/
- 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. Diethylene glycol monobutyl ether is produced, as an intermediate or final product, by process units covered under this subpart.
- TSCA REQUIREMENTS
Manufactures and processors of diethylene glycol monobutyl ether required to conduct subchronic toxicity, neurotoxicity/behaviorial effects, developmental neurotoxicity, and pharmacokinetic test under TSCA section 4.
- FIFRA REQUIREMENTS
Diethylene glycol monobutyl ether is exempted from the requirement of a tolerance when used as a deactivator for formulations used before crop emerges from soil or as a stabilizer in accordance with good agricultural practice as inert (or occasionally active) with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops only.
- FDA REQUIREMENTS
Diethylene glycol monobutyl ether is an indirect food additive for use only as a component of adhesives.