

MILES® GLYCOL ETHER BLEND (EB / DB / DPM)

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Glycol ether blend (EB, DB and DPM)

CAS No.: 111-76-2 / 112-34-5 / 34590-94-8 | Formula: EB: $C_6H_{14}O_2$; DB: $C_8H_{18}O_3$; DPM: $C_7H_{16}O_3$

Recommended Use: Coalescent and coupling solvent in cleaners, coatings, inks and automotive fluids

Supplier: Miles Lubricants LLC

Emergency Telephone: CHEMTREC 1-800-424-9300 (US)

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Depends on blend composition. Component EB: Flam. Liq. 4; Acute Tox. 4 (oral, dermal, inhalation); Skin Irrit. 2; Eye Irrit. 2A. Component DB: Eye Irrit. 2A. Component DPM: combustible liquid

Signal Word: Warning (EB-containing blends)

Hazard Statements: Component EB: H227 – Combustible liquid. H302 + H312 + H332 – Harmful if swallowed, in contact with skin or if inhaled. H315 – Causes skin irritation. H319 – Causes serious eye irritation. Component DB: H319 – Causes serious eye irritation.

Precautionary Statements: P210, P261, P264, P270, P271, P280, P301+P312, P302+P352, P305+P351+P338, P403+P235, P501

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ethylene glycol monobutyl ether (EB, CAS 111-76-2), diethylene glycol monobutyl ether (DB, CAS 112-34-5), dipropylene glycol methyl ether (DPM, CAS 34590-94-8); exact ratio per lot

SECTION 4: FIRST-AID MEASURES

Eye Contact: Flush with water 15+ minutes; seek medical attention if irritation persists.

Skin Contact: Wash with soap and water; remove contaminated clothing.

Inhalation: Move to fresh air; seek medical attention if symptoms persist.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical, CO_2 .

Special Hazards: Combustible liquid; containers may rupture when heated; combustion produces carbon oxides.

Firefighter PPE: SCBA and full protective gear for enclosed-space or large fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate ignition sources. Ventilate area. Absorb with inert material; avoid discharge to sewers or waterways.

SECTION 7: HANDLING AND STORAGE

Store in tightly closed containers in a cool, dry, well-ventilated area away from heat, ignition sources and strong oxidizers. Slightly hygroscopic; keep closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: EB: OSHA PEL (TWA) 50 ppm (skin); NIOSH REL (TWA) 5 ppm; ACGIH TLV (TWA) 20 ppm. DB: AIHA WEEL (TWA) 10 ppm. DPM: OSHA PEL (TWA) 100 ppm; ACGIH TLV (TWA) 50 ppm.

Engineering Controls: Local exhaust ventilation.

PPE: Chemical splash goggles; chemical-resistant gloves (butyl or neoprene); protective clothing; NIOSH-approved respirator if exposure limits may be exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid | **Odor:** Mild to characteristic

Boiling Point (components): EB 171°C; DPM approx. 184–190°C; DB 230°C | **Freezing Point (components):** EB -75°C; DB -68°C; DPM -83°C

Specific Gravity (components): EB approx. 0.90; DB and DPM approx. 0.95 | **Flash Point (components):** EB 67°C; DPM 75°C; DB 95–105°C

Evaporation: EB medium to fast; DB and DPM slow

Solubility in Water: Miscible in all proportions. Blend values fall between the component values.

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions. Avoid heat, ignition sources and strong oxidizers. Glycol ethers can form peroxides on prolonged exposure to air.

SECTION 11: TOXICOLOGICAL INFORMATION

EB is harmful by ingestion, skin contact and inhalation and can cause blood effects at high exposure; DB is a serious eye irritant; DPM has low toxicity. Blend toxicity depends on EB content.

SECTION 12: ECOLOGICAL INFORMATION

Readily biodegradable. Low aquatic toxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose per local/state/federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT: Combustible liquid (flash point above 60°C); not regulated as a hazardous material in non-bulk packaging. Bulk shipments may be regulated as NA1993, Combustible liquid, n.o.s. Confirm for the specific blend.

SECTION 15: REGULATORY INFORMATION

Listed on TSCA. Regulatory status of the blend depends on composition; confirm current federal, state and local requirements.

SECTION 16: OTHER INFORMATION

This SDS is a general reference compilation and does not replace the manufacturer's or Miles Lubricants LLC's officially issued, lot-specific SDS.