

**MILES® DOWTHERM™ SR-1 HEAT TRANSFER FLUID, DYED
(INHIBITED ETHYLENE GLYCOL)****Safety Data Sheet****SECTION 1: IDENTIFICATION**

Product Name: DOWTHERM SR-1 Heat Transfer Fluid, Dyed

Base Component CAS No.: 107-21-1 (ethylene glycol) | Composition: 95.5% ethylene glycol / 4.5% performance additives

Recommended Use: Closed-loop heat-transfer/HVAC fluid

Supplier: Miles Lubricants LLC

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

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Acute Tox. 4 (oral); Eye Irrit. 2A

Signal Word: Warning

Hazard Statements: H302 – Harmful if swallowed. H319 – Causes serious eye irritation.

Precautionary Statements: P264, P270, P280, P301+P312, P305+P351+P338, P330

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ethylene Glycol (CAS 107-21-1): ~95.5% by weight

Proprietary Corrosion Inhibitor Package: ~4.5% by weight

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.

Inhalation: Move to fresh air (low volatility; inhalation exposure unlikely under normal use).

Ingestion: Harmful if swallowed, ethylene glycol is toxic. Do NOT induce vomiting. Seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, CO₂, dry chemical, foam.

Special Hazards: Not classified as flammable in aqueous/inhibited form; combustion may produce irritating gases.

Firefighter PPE: Standard structural firefighting gear; SCBA in enclosed spaces.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Contain spill, ethylene glycol is toxic to humans and animals (sweet taste can attract pets/wildlife). Absorb with inert material; prevent entry into waterways/storm drains.

SECTION 7: HANDLING AND STORAGE

Store in closed containers, protected from extreme temperature and direct sunlight. Keep away from food/feed storage areas due to ingestion toxicity risk.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Refer to ethylene glycol guidance values (ACGIH TLV ceiling 50 ppm as aerosol/vapor).

Engineering Controls: General ventilation adequate under normal use.

PPE: Safety glasses; chemical-resistant gloves recommended for prolonged contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fluorescent pink liquid | **Odor:** Slight

Specific Gravity: 1.1250–1.1350 @ 25/25°C (77/77°F) | **pH (50% solution):** 9.0–10.5

Reserve Alkalinity (min.): 12.0 mL | **Recommended Use Temp. Range:** -50°C to 120°C (-60°F to 250°F)

Solubility in Water: Complete (miscible)

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions. Avoid extremes of temperature and prolonged direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Ethylene glycol is toxic if ingested metabolized to toxic acid metabolites that can cause kidney damage; antidote (fomepizole) available under medical supervision. Not classified as a carcinogen. May cause mild, reversible eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ethylene glycol component is readily biodegradable but poses acute toxicity risk to wildlife/pets if ingested directly.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose per local/state/federal regulations; may require special handling due to ethylene glycol toxicity.

SECTION 14: TRANSPORT INFORMATION

DOT: Classification depends on final formulation confirm current shipping status with current SDS (inhibited glycol solutions are frequently not regulated as a dangerous good, but this should be verified for the specific lot).

SECTION 15: REGULATORY INFORMATION

Listed on TSCA.

SECTION 16: OTHER INFORMATION

This SDS is a general reference compilation based on published technical/safety literature for DOWTHERM SR-1 Fluid and does not replace the manufacturer's Miles Lubricants LLC's officially issued, lot-specific SDS. The exact GHS classification and hazard statements should be verified against current SDS, as inhibitor package formulations can be updated.