

SAFETY DATA SHEET (SDS)

Compliant with OSHA 29 CFR 1910.1200, Regulation (EC) No 1272/2008 (CLP), and GHS Standards.

Product: GlycoFlow 75 | Material Number: 33-01-033 | Revision Date: 2026-01-30 | Version: 1.0

1. IDENTIFICATION

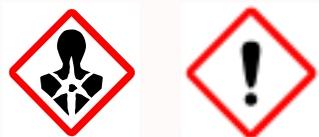
Product Name	GlycoFlow 75 (Engine Coolant)
Material Number	33-01-033
Synonyms	75% Ethylene Glycol Solution, Heavy Duty Coolant, Antifreeze Concentrate
Recommended Use	Industrial Engine Coolant, Heat Transfer Fluid, Antifreeze. <i>Not for human consumption.</i>
Supplier Details	Alkemist Pakistan Middle East RAIL BAZAR NEAR CHEMA MEDICAL STORE CITY HAFIZABAD - PAKISTAN WhatsApp: +923152372222 Email: admin@alkemist.org
Emergency Phone	CHEMTREC (USA): 1-800-424-9300 International: +1 703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

- **Acute Toxicity (Oral):** Category 4
- **STOT - Repeated Exposure:** Category 2 (Kidney)

LABEL ELEMENTS



WARNING

Hazard Statements:

- H302:** Harmful if swallowed.
H373: May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements:

- P260: Do not breathe mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Ethylene Glycol	107-21-1	73.0 - 75.0%
Corrosion Inhibitor Package	Proprietary	2.0 - 5.0%
Water	7732-18-5	Balance



4. FIRST AID MEASURES

- **General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- **Inhalation:** Remove person to fresh air. If breathing is difficult, give oxygen.
- **Skin Contact:** Wash with plenty of soap and water. If irritation occurs, get medical attention. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- **Ingestion: Rinse mouth. Do NOT induce vomiting.** Immediately call a POISON CENTER or doctor. Ethylene glycol can cause kidney failure if ingested in significant quantities.

5. FIREFIGHTING MEASURES

- **Flammability:** Combustible liquid at high temperatures. Product contains significant water but concentrated glycol can burn.
- **Extinguishing Media:** Alcohol-resistant foam, dry chemical, carbon dioxide, water spray.
- **Specific Hazards:** Thermal decomposition may generate carbon oxides. Containers may rupture when heated.
- **Firefighting Gear:** Wear self-contained breathing apparatus (SCBA) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.
- **Environmental Precautions:** Prevent entry into sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- **Methods for Cleaning Up:** Soak up with inert absorbent material (e.g. sand, silica gel). Collect in suitable, closed containers for disposal. Wash spill site with water.

7. HANDLING AND STORAGE

- **Handling:** Avoid breathing mist or vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking. Use in well-ventilated area.
- **Storage:** Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances (strong oxidizers). Protect from moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Agency	Limit (TWA/Ceiling)
Ethylene Glycol (107-21-1)	ACGIH TLV	100 mg/m ³ (Ceiling, Aerosol)
Ethylene Glycol (107-21-1)	OSHA PEL	50 ppm (Ceiling) - <i>Vacated</i>

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available.

Personal Protective Equipment (PPE):

- **Eyes:** Safety glasses with side shields or chemical goggles.
- **Skin:** Wear suitable protective clothing and gloves (Nitrile/Neoprene/Butyl).
- **Respiratory:** If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn (Organic vapor/Mist cartridge).



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to Fluorescent Liquid	Odor: Mild, Sweet
pH: 8.0 - 10.5 (Inhibitor Buffered)	Flash Point: > 115°C (Open Cup)
Boiling Point: ~125°C - 130°C	Freezing Point: < -40°C
Evaporation Rate: Low	Flammability: Combustible > 100°C
Vapor Pressure: Low	Density: ~1.08 - 1.10 g/cm ³
Solubility: Complete in water	Auto-ignition: > 400°C

10. STABILITY AND REACTIVITY

- **Reactivity:** No dangerous reaction known under conditions of normal use.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Extreme heat, open flames. Moisture (product is hygroscopic).
- **Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases.
- **Hazardous Decomposition:** Carbon monoxide (CO), Carbon dioxide (CO₂), Aldehydes.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin, Eyes, Ingestion.

- **Acute Toxicity (Ethylene Glycol):** LD50 Oral (Rat) 4700 mg/kg; LD50 Dermal (Rabbit) 10,600 mg/kg.
- **Ingestion:** Harmful if swallowed. Ingestion may cause nausea, vomiting, abdominal pain, and kidney damage. Lethal dose for humans approx 100ml.
- **Skin/Eye:** May cause mild irritation.
- **Chronic Toxicity:** Repeated exposure via ingestion can cause kidney damage (nephrotoxicity) and central nervous system depression.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Ethylene Glycol is low toxicity to aquatic life. LC50 (Fish) > 10,000 mg/L.
- **Persistence/Degradability:** Readily biodegradable.
- **Bioaccumulation:** Does not bioaccumulate (Log Kow -1.36).
- **Mobility:** High mobility in soil. Dissolves in water.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Do not discharge into drains or the environment. Spent coolant may be hazardous waste due to contaminants (heavy metals) from the engine system it cooled.



14. TRANSPORT INFORMATION

Parameter	Description
UN Number	Not Regulated
Proper Shipping Name	Non-Hazardous Liquid (Coolant Concentrate)
Hazard Class	None
Packing Group	None
Note	Not regulated for ground transport in non-bulk quantities.

15. REGULATORY INFORMATION

- **TSCA (USA):** All ingredients listed.
- **SARA 313:** Ethylene Glycol (CAS 107-21-1) is subject to reporting requirements.
- **SARA 311/312:** Acute Health Hazard, Chronic Health Hazard.
- **California Prop 65:** WARNING: This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS: Health: 2* | Flammability: 1 | Reactivity: 0

NFPA: Health: 2 | Fire: 1 | Instability: 0

* *Chronic Hazard*

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. It is intended only as guidance for safe handling and is not a warranty. Alkemist Pakistan | Middle East assumes no liability for the use of this product.

