SAFETY DATA SHEET

Propylene Glycol, Technical

Revised: 07/01/2026

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Propylene Glycol, Technical
Synonyms: propane-1,2-diol, Propylene Glycol
CAS Number: 57-55-6
Grade/Purity: Technical
Product Type: Glycol (Liquid)
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Not Classified

GHS Pictograms:

None assigned

Hazard Statements:

Not	classified as hazardous under OSHA HCS / GHS.

Precautionary Statements:

P264	Wash hands after handling.
P501	Dispose of contents and container in accordance with all applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Propylene Glycol	~99.5%	~99.5%	57-55-6	200-338-0	$C_3H_8O_2$	76.09 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with water; get medical attention if irritation persists.
Skin	Wash with soap and water.
Inhalation	Remove to fresh air.
Ingestion	Low toxicity; rinse mouth, get medical attention if a large amount is swallowed.

5. FIRE-FIGHTING MEASURES

Suitable Media	Use water spray, alcohol-resistant foam, dry chemical, or CO2. Use measures appropriate to local circumstances.
Unsuitable Media	Do not use a solid water stream as it may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Combustion Products	May include carbon oxides and other toxic fumes. See Section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area. Keep away from: Strong oxidizers. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

AGENCY	EXPOSURE LIMIT
OSHA PEL	None established
ACGIH TLV	None established (10 mg/m3 aerosol guidance)
NIOSH REL	None established
IDLH	Not established

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless, viscous, nearly odorless liquid
Odor	Practically odorless
Median Particle Size	Not Applicable
Particle Size Distribution	Not Applicable
Particle Shape	Not Applicable
Surface Area	Not Applicable
Dustiness	Not Applicable
Hygroscopicity	Not Applicable
pH	Neutral (~6-8 aqueous)
Melting Point	-59 C
Boiling Point	188 C
Flash Point	~99 C (closed cup)
Vapor Pressure	~0.08 mmHg at 20 C
Specific Gravity	1.036
Solubility	Miscible with water
Molecular Formula	$C_3H_8O_2$
Molecular Weight	76.09 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong oxidizers
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See below for route-specific data.

ROUTE	VALUE
LD50 Oral	20000 mg/kg (rat) - practically non-toxic
LD50 Dermal	20800 mg/kg (rabbit)
LC50 Inhalation	No mortality (low volatility)

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50: 96-h LC50 > 40,000 mg/L (practically non-toxic); Daphnia EC50: > 10,000 mg/L [PubChem]
Persistence	Readily biodegradable
Bioaccumulation	BCF: Low; not bioaccumulative
Mobility in Soil	High mobility in soil (Log Kow < 1)

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

US DOT	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA/ICAO	Not regulated as dangerous goods.
Marine Pollutant	No

15. REGULATORY INFORMATION

TSCA: listed. SARA 313 (TRI): not listed. CERCLA: no RQ. California Proposition 65: not listed. State Right-to-Know: may be listed. US DOT: not regulated. Generally recognized as safe (GRAS) by FDA for food/pharma use.

SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

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