

# Safety Data Sheet

## Propylene Glycol



### Section 1 Product Description

**Product Name:** Propylene Glycol  
**Recommended Use:** Science education applications  
**Synonyms:** 1,2-Propanediol  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

## WARNING

Causes eye irritation.

**GHS Classification:**

Serious Eye Damage/Eye Irritation Category 2B, Skin Corrosion/Irritation Category 3

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Propylene Glycol	57-55-6	100

### Section 4 First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use methods suitable to fight surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Surfaces may become slippery after spillage.

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## Section 7 Handling and Storage

**Handling:** Wash thoroughly after handling.  
**Storage:** Keep container tightly closed in a cool, well-ventilated place.  
Material is hygroscopic (absorbs moisture).  
**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Propylene Glycol	N/A	N/A	N/A	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** No information available

## Section 9 Physical Data

<b>Formula:</b> CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH	<b>Vapor Pressure:</b> 0.11 hPa at 20 °C
<b>Molecular Weight:</b> 76.09	<b>Evaporation Rate (BuAc=1):</b> 0.005
<b>Appearance:</b> Colorless Liquid	<b>Vapor Density (Air=1):</b> 2.62
<b>Odor:</b> Mild Sweet	<b>Specific Gravity:</b> 1.04 at 20 °C
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> -0.92
<b>Melting Point:</b> -60 C	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> 188 C	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> 99 C	<b>Viscosity:</b> 0.56
<b>Flammable Limits in Air:</b> 2.6 - 12.6%	<b>Percent Volatile by Volume:</b> No data available

## Section 10 Reactivity Data

**Reactivity:** Not generally reactive under normal conditions.  
**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Incompatible Materials:** Silver Nitrate, Strong oxidizing agents, Strong reducing agents  
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Routes of Entry:** Inhalation, ingestion, eye or skin contact.  
**Symptoms (Acute):** No data available  
**Delayed Effects:** No data available

### Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol	57-55-6	Oral LD50 Dog 22000 mg/kg	Dermal LD50 Rabbit 20800 mg/kg	Not determined

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**Carcinogenicity:****Chemical Name**

Propylene Glycol

**CAS Number**

57-55-6

**IARC**

Not listed

**NTP**

Not listed

**OSHA**

Not listed

**Chronic Effects:****Mutagenicity:**

No evidence of a mutagenic effect.

**Teratogenicity:**

No evidence of a teratogenic effect (birth defect).

**Sensitization:**

No evidence of a sensitization effect.

**Reproductive:**

No evidence of negative reproductive effects.

**Target Organ Effects:****Acute:**

No information available

**Chronic:**

No information available

## Section 12

## Ecological Data

**Overview:**

This material is not expected to be harmful to the ecology.

**Mobility:**

This material is expected to have very high mobility in soil. It does not absorb to most soil types.

**Persistence:**

Biodegradation

**Bioaccumulation:**

Bioconcentration is not expected to occur.

**Degradability:**

Biodegrades quickly.

**Other Adverse Effects:**

No data

**Chemical Name**

Propylene Glycol

**CAS Number**

57-55-6

**Eco Toxicity**

96 HR LC50 ONCORHYNCHUS MYKISS 51600 MG/L [STATIC]

96 HR LC50 PIMEPHALES PROMELAS 51400 MG/L [STATIC]

96 HR LC50 PIMEPHALES PROMELAS 710 MG/L

24 HR EC50 DAPHNIA MAGNA &gt; 10000 MG/L

48 HR EC50 DAPHNIA MAGNA &gt; 1000 MG/L [STATIC]

96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 19000

MG/L

## Section 13

## Disposal Information

**Disposal Methods:**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

**Waste Disposal Code(s):**

Not Determined

## Section 14

## Transport Information

**Ground - DOT Proper Shipping Name:**

Not regulated for transport by US DOT.

**Air - IATA Proper Shipping Name:**

Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

**TSCA Status:**

All components in this product are on the TSCA Inventory.

**Chemical Name****CAS  
Number****§ 313 Name****§ 304 RQ****CERCLA RQ****§ 302 TPQ****CAA 112(2)  
TQ**

Propylene Glycol

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No

No

No

No

No

## Section 16

## Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Glossary**

# Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health