

SAFETY DATA SHEET

Propylene Glycol (1,2 Propanediol), Kosher

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: Synonyms: High Purity Chemicals 1,2-Propanediol; 1,2-Propylene Glycol; 1,2-Dihydroxypropane; 2-Hydroxypropanol CAS No. 57-55-6 EINECS No. 200-338-0 **Catalog #:** NC-3644

Other means of identification:

Recommended use of the chemical and restrictions on use:

Supplier Details:

The Science Company. 7625 W Hampden Ave #14 Lakewood CO 80227, USA.

Tel: 303-777-3777 Fx: 303-777-3331

Pharmco Products, Inc.

1101 Isaac Shelby Drive, Shelbyville, KY 40065, USA. Tel: 502.232.7600 Fax: 502.633.6100 CCN17213

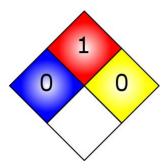
Emergency Contact:

CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

OSHA Hazards: No OSHA hazards





Other hazards which do not result in classification:

Potential Health Effects:

SDS: 429

Revision Date: 06.18.15

Revision Number: 3.1

Initials: EF

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Organ	Organ Description	
Eyes	May cause eye irritation.	
Ingestion	May cause gastrointestinal irritation with nausea, vomiting and diarrhea.	
Inhalation	Low hazard for usual industrial handling.	
Skin	May cause skin irritation	

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity: Propy	/lene glycol
Common name / Synonym: 1,2-P	ropanediol; 1,2-Propylene Glycol; 1,2-Dihydroxypropane;
2-Ну	droxypropanol
CAS number: 57-55	j-6
EINECS number: 200-3	i38-0
ICSC number: 0321	
RTECS #: TY20	00000
UN #: N/A	

% Weight	Material	CAS
100	Propylene glycol	57-55-6

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

Ingestion

Do NOT induce vomiting. If victim is conscious and alert, rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

5. FIRE FIGHTING MEASURES



Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Flammable Properties Flash point 99 °C (210 °F) - Closed Cup Autoignition temperature 371 °C (700°F)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist, or gas. Avoid dust formation.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb with an inert dry material and place in an appropriate waste disposal container. Keep disposal containers closed when finished.

7. HANDLING AND STORAGE

Precautions for safe handling:

Provide proper exhaust ventilation system in areas where dust forms. Take normal fire prevention measures.

Conditions for safe storage, including any incompatibilites:

Keep container tightly closed in a cool, dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Туре	Value	Note
Proplene Glycol	/		No exposure limit.	



Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	viscous liquid. colorless.
Odor	mild
Freezing point	-60.0°C (-76.0°F)
Initial boiling point and boiling range	210°C (410°F)
Flash point	99 °C (210 °F) - closed cup
Evaporation rate	Specific data not available - expected to be rapid.
Upper / Lower flammability or explosive limits	2.6% (V) / 12.5% (V)
Vapor pressure	20°C (68°F): 0.106 mbar (0.08 mm Hg)
Vapor Density	2.6
Relative Density	1.036 g/cm3 at 25 °C (77 °F)
Solubility(ies)	completely soluble in water
Partition coefficient n-octanol/water(ies)	log P = -0.92, P = 0.12
Auto-ignition temperature	371 °C (700 °F)
Decomposition temperature	165°C (329°F)
Fomula (PROPYLENE GLYCOL)	C3H8O2
Molecular Weight (PROPYLNE GLYCOL)	76.09 g/mol



10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid (e.g., static discharge, shock or vibration)	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions Carbon oxides

11. TOXICOLOGICAL INFORMATION

Propylene Glycol 57-55-6

Product Summary:

No data available for reproductive toxicity, muantagentic toxicity, or teratogenicity of this product.

Acute Toxicity:

LC50 (Inhalation)	Rat	>105 ppm/8hr	
LD0 (Dermal)	Rabbit	20.8 g/kg	
LD50 (Oral)	Rat	21.0-33.7g/kg	

Irritation:

Eyes Rabbit - mild eye irritation

Skin

Human - slight irritation

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
Eyes	May cause eye irritation.



Ingestion	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system effects.
	Low hazard for usual industrial handling.
Skin	May cause skin irritation
Chronic	May cause fetal effects.

12. ECOLOGICAL INFORMATION

Propylene Glycol 57-55-6

Ecotoxicity (aquatic and terrestrial, where available): Acute Toxicity in dahpnia (PROPYLENE GLYCOL) mortality NOEC / 48hr / daphnia - 13,020 mg/l

Acute toxicity in daphnia (PROPYLENE GLYCOL) EC50 / 48hr / Water flea - >10000mg/l

Acute Toxicity in Fish (PROPLENE GLYCOL)

mortaliy NOEC / 9 hr / fathead minnow - 52,930mh/l

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:UN numberNot a dangerous good.

IMDG

UN-Number: Not a dangerous good. Marine pollutant: No IATA UN-Number: Not a dangerous good.

15. REGULATORY INFORMATION



Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

No OSHA hazards

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIOC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Pennsylvania Right To Know Components

Propane-1,2-diol CAS-No. 57-55-6 Revision Date 1989-08-11

New Jersey Right To Know Components

Propane-1,2-diol CAS-No. 57-55-6 Revision Date 1989-08-11

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

The Science Company believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, The Science Company does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable. Information is correct to the best of our knowledge at the date of the SDS publication.