HI-VALLEY CHEMICAL
LABORATORY PRODUCTS
1134 W. 850 N. CENTERVILLE, UT 84014
(801) 295-9591 Fax (801) 295-9448
www.hvchemical.com

Propylene Glycol

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Propylene Glycol
Synonyms: 1,2-Propanediol
SDS Number: R-015
Product Code: 513032-PT, 513032-QT, 513032-1, 513032-5, 513032-30, 513032-55
Revision Date: 9/15/2015
Version: 1.0
CAS Number: 57-55-6
Chemical Formula: C3H8O2
Supplier Details: High Valley Products, Inc.
1134 West 850 North
Centerville, Utah 84014
Emergency: PERS: 800-633-8253
Phone: 801-295-9591
Email: sales@hvchemical.com
Web: www.hvchemical.com

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

no GHS classifications indicated

GHS Label elements, including precautionary statements

GHS Signal Word: NONE

no GHS pictograms indicated for this product

GHS Hazard Statements:

no GHS hazards statements indicated

GHS Precautionary Statements:

no GHS precautionary statements indicated

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
57-55-6	100%	Propylene glycol

4 FIRST AID MEASURES

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact: Wash with soap and water. Get medical attention if needed.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture
No data available
Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
Further information
No data

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Environmental precautions:
Do not let product enter drains.
Methods and materials for containment and cleaning up:
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions: Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing.
Storage Requirements: Store in cool/dry area. Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Personal Protective Equipment: Propylene glycol (57-55-6) [100%]

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 gloves 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. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) Splash contact data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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

Exposure Guidelines:
Propylene glycol (57-55-6) [100%]

Components with workplace control parameters

TWA	10 mg/m3	USA. Workplace Environmental Exposure Levels (WEEL)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless.		
Physical State:	Liquid	**Odor:**	No data available
Odor Threshold:	No data available	**Solubility:**	No data available
Spec Grav./Density:	1.036	**Freezing/Melting Pt.:**	-60 °C (-76 °F)
Viscosity:	No data available	**Flash Point:**	103 °C (217 °F)
Boiling Point:	187 °C (369 °F)	**Vapor Density:**	2.63 - (Air = 1.0)
Partition Coefficient:	No data available	**Auto-Ignition Temp:**	No data available
Vapor Pressure:	0.11 hPa (0.08 mmHg) at 20 °C (68 °F)	**UFL/LFL:**	12.5% (V) / 2.6% (V)
pH:	No data available		
Evap. Rate:	No data available		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available
Materials to Avoid:	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents
Hazardous Decomposition:	No data available

11 TOXICOLOGICAL INFORMATION

Propylene glycol (57-55-6) [100%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 20,000 mg/kg
Inhalation LC50 no data available
Dermal LD50 LD50 Dermal - rabbit - 20,800 mg/kg
Other information on acute toxicity LD50 Intramuscular - rat - 14 g/kg
LD50 Intravenous - dog - 26 g/kg
LD50 Intraperitoneal - rat - 6,660 mg/kg
LD50 Subcutaneous - rat - 22,500 mg/kg
LD50 Intravenous - rat - 6,423 mg/kg
LD50 Intraperitoneal - mouse - 9,718 mg/kg
Remarks: Lungs, Thorax, or Respiration:Chronic pulmonary edema. Kidney, Ureter, Bladder:Changes in both tubules and glomeruli. Blood:Changes in spleen.
LD50 Subcutaneous - mouse - 17,370 mg/kg
Remarks: Behavioral:Change in motor activity (specific assay). Behavioral:Muscle contraction or spasticity. Cyanosis
LD50 Intravenous - mouse - 6,630 mg/kg
LD50 Intravenous - rabbit - 6,500 mg/kg

Skin corrosion/irritation: Skin - Human - Mild skin irritation - 7 d

Serious eye damage/eye irritation: Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible 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.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression

Synergistic effects: no data available

Additional Information:

RTECS: TY2000000

12 ECOLOGICAL INFORMATION

Propylene glycol (57-55-6) [100%]

Information on ecological effects

Toxicity:
Toxicity to fish mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h.
Toxicity to daphnia mortality NOEC - Daphnia - 13,020 mg/l - 48 h.
and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 48 h

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

Propylene glycol (57-55-6) [100%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

Non DOT regulated.

15 REGULATORY INFORMATION

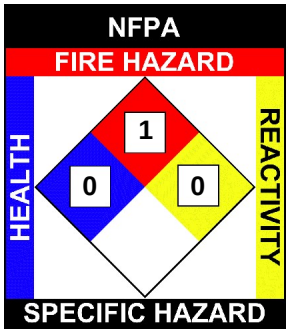
Component (CAS#) [%] - CODES

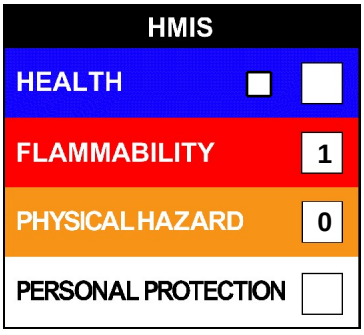
Propylene glycol (57-55-6) [100%] HAP, PA, TSCA

```
Regulatory CODE Descriptions
-------------------------------------------------------------
HAP = Hazardous Air Pollutants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
```

16 OTHER INFORMATION

NFPA: Health = 0, Fire = 1, Reactivity = 0, Specific Hazard = n/a
HMIS III: Health = , Fire = 1, Physical Hazard = 0





Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Author: HVC
Publication Date: 9/15/15
Revision No. 1.0