

SDS Number: 909251

**1** PRODUCT AND COMPANY INFORMATION

Product Name: Propylene Glycol  
Revision Date: 09/25/2015  
SDS Number: 909251  
Common Name: Propylene Glycol - USP  
CAS Number: 57-55-6  
Product Code: 909251  
Synonyms: Propane-1,2-diol; methyl ethylene glycol; 1,2-dihydroxypropane; PG

**Company Identification:**

*Manufactured for:*  
LYDEN OIL COMPANY  
3711 LeHarps Road  
Youngstown, OH 44515

For Product Information: 1-330-792-1100  
For Emergencies: 1-800-424-9300  
CHEMTREC: 1-800-424-9300 or 1-703-527-3887

**2** HAZARDS IDENTIFICATION

Signal Word: **None**

Hazard Classes/Categories:  
None

Hazard Statement(s):  
None

Precaution Statement(s):  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P103: Read label before use.

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Other Hazard Statement(s):

-NFPA Ratings:

Health = 0

Fire = 1

Reactivity = 0

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

*Mixture of the substances listed below with nonhazardous additions.*

Chemical Name	CAS Number	Percentage
Propylene glycol	57-55-6	98-100

*\*Any concentration shown as a range is to protect confidentiality or is due to batch variation.*

### 4 FIRST AID MEASURES

Description of First Aid Measures:

Inhalation:

If symptoms develop, move victim to fresh air and keep in a position comfortable for breathing. If symptoms persist, obtain medical attention.

Skin Contact:

Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.

Eye Contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult medical attention.

Ingestion:

Rinse mouth with water and drink plenty of water to dilute. If symptoms develop, obtain medical attention.

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Symptoms and Effects, both acute and delayed:

Acute - Mild eye, skin, and/or respiratory tract irritation.

Recommended Actions:

Treat symptomatically. Call a doctor or poison control center for guidance.

**5** FIRE FIGHTING MEASURES

Recommended Fire-Extinguishing Equipment:

Use dry powder, foam, or carbon dioxide fire extinguishers. Water may cause frothing and splattering and should only be used by experienced fire fighters.

Possible Hazards During a Fire:

Vapors which ignite at or above the flash point are heavier than air and may travel along the ground. Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Recommendations to Firefighters:

Proper protective equipment including breathing apparatus.

**6** ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin, eyes, and clothing. Avoid breathing vapors.  
Keep away from sources of ignition.

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Emergency Procedures:

Contain spilled material, collect in suitable and properly labeled containers.

Environmental Precautions:

Do not allow to reach sewage system or any water course.  
Do not allow to enter ground waters.

Cleanup Procedures:

Pick up excess with inert absorbant material if released on the ground. Suppress vapors using water fog if released to the air. Notify all downstream users of possible contamination if released to waters. Treat contaminated absorbent same as spilled product.

**7** HANDLING AND STORAGEHandling Precautions:

Handle with care and avoid spillage on the floor.  
Do not cut, weld, drill, grind, braze, or solder container.

Storage Requirements:

Keep container tightly sealed.  
Keep away from sources of ignition.

**8** EXPOSURE CONTROLS / PERSONAL PROTECTIONExposure Limits:

-57-55-6 Propylene Glycol (100%):

AIHA WEEL TWA - 10mg/m<sup>3</sup> (aerosol)

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

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Personal Protective Equipment:

Keep away from foodstuffs, beverages, and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with eyes and skin.  
Use safety glasses and gloves.  
In case of low exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**9** PHYSICAL AND CHEMICAL PROPERTIES

Color:	Colorless
Physical State:	Liquid
Odor:	Mild
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	-60° C
Boiling Point:	187° C
Boiling Range:	Data not available
Flash Point:	107° C
Evaporation Rate:	0.01 (where Butyl Acetate - 1)
Flammability:	Data not available
Flammability Limits:	2.6-12.5 % Vol.
Vapor Pressure:	<0.1 mmHg at 25 °C
Vapor Density:	2.62
Relative Density:	1.04
Solubilities:	Completely miscible in water
Partition Coefficient:	-0.92 (Log Kow)
Auto-Ignition Temperature:	371 °C
Decomposition Temperature:	Data not available
Viscosity:	0.581 cP at 20 °C

**10** STABILITY AND REACTIVITYStability:

Stable under normal conditions.

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Reactivity:

Reacts with strong oxidants, causing a fire hazard.

Conditions to Avoid:

Extreme temperature, sparks, open flame, and direct sunlight.

Hazardous Reactions:

May react with hydrofluoric acid, nitric acid, and silver nitrate to form the explosive silver fulminate.

Incompatible Materials:

Strong oxidizers.

Decomposition Products:

Oxides of carbon.

**11** TOXICOLOGICAL INFORMATIONRoutes of Exposure:

This material is absorbed into the body by inhalation of its vapor, and by ingestion.

Exposure Effects:May irritate the eyes causing redness and pain.  
May cause mild irritation to the skin.Measures of Toxicity:

Component Acute Toxicity Estimates:

-57-55-6 Propylene glycol:

Oral LD50: &gt;5000 mg/kg (rat)

Dermal LD50: &gt;2000 mg/kg (rabbit)

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.

**12** ECOLOGICAL INFORMATIONEcological Precautions:

Avoid exposing to the environment.

Ecological Effects:

-57-55-6 Propylene glycol:

LC50 - Fathead minnow: &gt;62000 mg/L (96 hours)

LC50 - Daphnia magna: &gt;43500 mg/L (48 hours)

**13** DISPOSAL CONSIDERATIONSDisposal Methods:

Dispose of waste material in accordance with all local, state, and federal requirements.

Disposal Containers:

Use properly approved container for disposal.

Special Precautions:

Do not flush to surface waters or drains.

**14** TRANSPORT INFORMATIONUN Number: Data not availableUN Shipping Name: Data not availableTransport Hazard Class: Data not availablePacking Group: Data not availableEnvironmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

Not regulated by DOT.



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### 15 REGULATORY INFORMATION

The following product components are cited on the Pennsylvania Hazardous Substances List and/or the Pennsylvania Environmental Hazardous Substances List and are present at levels which require reporting:

-57-55-6 Propylene glycol  
Listing: PA RTK  
98-100%

This material and all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act.

### 16 OTHER INFORMATION

Last Revision Date: 09/25/2015

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