



## I. Identification

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<b>Product Identifier:</b>	PROPYLENE GLYCOL 35% USP
<b>Recommended Use:</b>	Industrial, manufacturing, and laboratory use.
<b>Recommended Restrictions:</b>	None known.
<b>Manufacturer Information</b>	
<b>Manufacturer:</b>	Linder Oil Company, Inc.
<b>Address:</b>	820 Industrial Parkway Ossian, IN 46777
<b>Telephone:</b>	1-260-622-4680
<b>Email:</b>	lab@linderoilco.com
<b>Chemtrec:</b>	1-800-424-9300

## II. Hazard(s) Identification

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<b>Physical Hazard(s):</b>	Not classified.
<b>Health Hazard(s):</b>	Not classified.
<b>Environmental Hazard(s):</b>	Not classified.
<b>OSHA Defined Hazard(s):</b>	Not classified.
<b>Label Elements</b>	
<b>Hazard Symbol(s):</b>	None.
<b>Signal Word:</b>	None.
<b>Hazard Statement(s):</b>	Not applicable.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	None.
<b>Response:</b>	None.
<b>Storage:</b>	None.
<b>Disposal:</b>	None.
<b>Hazard(s) Not Otherwise Classified (HNOC):</b>	See section 11 of the SDS for additional information on health hazards.

### III. Composition/Information on Ingredients

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#### Substances

<b>Chemical Name</b>	<b>CAS Number</b>	<b>%</b>
Deionized water	7732-18-5	65%
Propylene glycol	57-55-6	35%

### IV. First-Aid Measures

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<b>Inhalation:</b>	Move to fresh air. Give oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.
<b>Skin Contact:</b>	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention.
<b>Eye Contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Ingestion:</b>	Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a poison control center immediately.
<b>Most Important Symptoms and Effects, Acute and Delayed:</b>	Dry skin and irritation are possible with repeated or prolonged exposure. Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea, and diarrhea.
<b>Indication of Immediate Medical Attention and Special Treatment Needed:</b>	Treat symptomatically.
<b>General Information:</b>	Contact physician if discomfort continues.

### V. Fire-Fighting Measures

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<b>Suitable Extinguishing Media:</b>	Halon, dry chemicals, foam, carbon dioxide (CO <sub>2</sub> ), water spray, or fog. Do not use water jet as an extinguisher, as this will spread the fire.
<b>Unsuitable Extinguishing Media:</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific Hazards Arising from the Chemical:</b>	No unusual fire or explosion hazards noted.
<b>Special Protective Equipment and Precautions for Firefighters:</b>	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing, and face mask.

**Fire-Fighting Equipment and Instructions:**

Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and, in enclosed spaces, SCBA. Use pressurized air mask if product is involved in a fire.

**General Fire Hazards:**

Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion.

## **VI. Accidental Release Measures**

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**Personal Precautions, Protective Equipment and Emergency Procedures:**

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

**Methods and Materials for Containment and Cleaning Up:**

Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth, or absorbent material, then place into containers. Following product recovery, flush the area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements, or confined areas. Avoid discharge to the aquatic environment. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses, or onto the ground. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

## **VII. Handling and Storage**

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**Precautions for Safe Handling:**

Do not breathe dust, fume, gas, mist, vapors, or spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take

**Conditions for Safe Storage, Including Any Incompatibilities:** place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.  
Keep away from heat, sparks, and open flame. Store in a well-ventilated place.

## VIII. Exposure Controls/Personal Protection

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### Occupational Exposure Limits:

#### US AIHA Threshold Limit Values

Component(s)	Type	Value	Form
Propylene glycol (CAS 57-55-6)	WEEL	10 mg/m <sup>3</sup>	Mist
	TWA	50 ppm	Vapor

### Biological Limit Values:

### Appropriate Engineering Controls:

No biological exposure limits noted for the ingredient(s).  
Adequate ventilation should be provided whenever the material is heated or mists are generated. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual Protection Measures, Such as Personal Protective Equipment:

**Eye & Face Protection:** Goggles/face shield are recommended.

#### Skin Protection:

**Hand Protection:** Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Other:** Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.

**Respiratory Protection:** Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

**Thermal Hazards:** Not available.

**General Hygiene Considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## IX. Physical and Chemical Properties

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**Appearance:** Clear and bright.

**Physical State:** Liquid.

<b>Form:</b>	Liquid.
<b>Color:</b>	Water white.
<b>Odor:</b>	None.
<b>Odor Threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Melting Point/Freezing Point:</b>	Not available.
<b>Initial Boiling Point and Boiling Range:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Upper/Lower Flammability or Explosive Limits</b>	
<b>Flammability Limit – Lower (%):</b>	Not available.
<b>Flammability Limit – Upper (%):</b>	Not available.
<b>Explosive Limit – Lower (%):</b>	Not available.
<b>Explosive Limit – Upper (%):</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Relative Density:</b>	1.0313 at 60 °F (15.56 °C)
<b>Solubility(ies):</b>	
<b>Solubility (water):</b>	Soluble.
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.

**\*\*NOTE:** These values are typical. For specific data, please refer to the certificate of analysis.

## **X. Stability and Reactivity**

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<b>Reactivity:</b>	The product is stable and non-reactive under normal conditions of use, storage, and transport.
<b>Chemical Stability:</b>	Stable.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Heat, flames, and sparks. Avoid temperatures exceeding the flash point.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

## XI. Toxicological Information

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### Information on Likely Routes of Exposure

<b>Inhalation:</b>	May be harmful if inhaled. However, this product does not currently meet the criteria for classification.
<b>Skin Contact:</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. However, this product is neither a skin irritant nor a skin sensitizer.
<b>Eye Contact:</b>	May be irritating to eyes. However, this product does not currently meet the criteria for classification.
<b>Ingestion:</b>	May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration.

**Symptoms Related to the Physical,** Not available.

### Chemical and Toxicological Characteristics:

#### Information on Toxicological Effects

<b>Acute Toxicity:</b>	Not classified.
<b>Skin Corrosion/Irritation:</b>	Not classified.
<b>Serious Eye Damage/ Irritation:</b>	Not classified.

#### Respiratory or Skin Sensitization

<b>Respiratory Sensitization:</b>	Not classified.
<b>Skin Sensitization:</b>	Not classified.

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

**Reproductive Toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

#### Specific Target Organ Toxicity

<b>Single Exposure:</b>	Not classified.
<b>Repeated Exposure:</b>	Not classified.

**Aspiration Hazard:** Not classified.

**Chronic Effects:** Not classified.

## XII. Ecological Information

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<b>Ecotoxicity:</b>	No data available.
<b>Persistence and Degradability:</b>	No data available.

<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Other Adverse Effects:</b>	This mixture is not expected to cause adverse environmental effects.

### XIII. Disposal Considerations

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<b>Disposal Instructions:</b>	When this product, as supplied, is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations and material characteristics at time of disposal.
<b>Hazardous Waste Code:</b>	Not applicable.
<b>Waste from Residues/Unused Products:</b>	Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.
<b>Contaminated Packaging:</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

### XIV. Transport Information

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<b>DOT:</b>	Not regulated as dangerous goods.
<b>IATA:</b>	Not regulated as dangerous goods.
<b>IMDG:</b>	Not regulated as dangerous goods.
<b>Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not available.

### XV. Regulatory Information

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<b>US Federal Regulations:</b>	
<b>CERCLA Hazardous Substance List (40 CFR 302.4):</b>	Not reportable.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard Categories:</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
<b>SARA 302 Extremely Hazardous Substance:</b>	Not regulated.
<b>SARA 311/312 Hazardous Chemical:</b>	Not applicable.
<b>SARA 313 (TRI Reporting):</b>	None.

<b>US State Regulations</b>	This product is not known to contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemical currently listed as carcinogens or reproductive toxins.
<b>US Massachusetts RTK – Substance List:</b>	Not listed.
<b>US New Jersey Worker and Community Right-to-Know Act:</b>	Propylene glycol CAS 57-55-6.
<b>US Pennsylvania RTK – Hazardous Substances:</b>	Propylene glycol CAS 57-55-6.
<b>US California Proposition 65:</b>	Not listed.

## International Inventories

Country or Region	Inventory Name	On Inventory(yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
United States& Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A “No” indicates that one or more components of the product are listed or exempt from listing on the inventory administered by the governing country(s).



## XVI. Other Information

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<b>Issue Date:</b>	06/01/2016
<b>Version #:</b>	1.0
<b>Certification:</b>	This product meets the requirements for Propylene Glycol as described in the current United States Pharmacopeia (USP).
<b>Disclaimer:</b>	Information contained herein is based on data available and is offered in good faith as accurate. However, this information is provided without any representations or warranty, expressed or implied, regarding its accuracy or correctness. The conditions of handling, storage, use, and disposal are beyond our control and may be beyond our knowledge. All risks of the use of this product are therefore assumed by the user and we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of the handling, storage, use, or disposal of this product.

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