

**HAZARD COMMUNICATION SAFETY DATA SHEET  
PROPYLENE GLYCOL INDUSTRIAL 38% SOLUTION**

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**SECTION I – PRODUCT INFORMATION**

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Distributor's name: Allied Rubber & Gasket Company, Inc. - ARGCO  
5816 Dryden Place #101  
Carlsbad, CA 92008

For information call: (800) 854-1015

Date prepared: 7/3/2015

Product name: PROPYLENE GLYCOL INDUSTRIAL

Synonyms : Propylene Glycol, 1,2-Propanediol, 1,2-Dihydroxypropane,  
Monopropylene Glycol

Identified uses : Solvent; Intermediate; Functional Fluids

Prohibited uses : Pharmaceutical excipient; Active pharmaceutical ingredient  
(API); Applications involving human consumption; Cosmetics;  
Toiletries; Personal care products; Tobacco; Electronic  
cigarettes (E-cigarettes); Theater fogs; Artificial smoke; Cat  
food; Sprinkler systems over 30%

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**SECTION II – HAZARDS IDENTIFICATION**

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**FLAMMABLE**

**GHS-Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**GHS-Labeling**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**Other hazards**

No additional information available.

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### SECTION III – COMPOSITION/INGREDIENTS

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#### Substances

##### Ingredients

Chemical Name	CAS-No. EC-No.	Weight %	Component Type
Propylene Glycol	57-55-6	>= 99.0 %	A

Key:  
(A) Substance

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### SECTION VI – FIRST AID MEASURES

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General advice :	May cause irritation of the eyes, skin and mucous membranes. Always observe self-protection methods Move out of dangerous area. Remove contaminated shoes and clothing. Show this material safety data sheet to the doctor in attendance.
If inhaled :	Remove to fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Avoid inhalation of hot vapors or extremely high concentrations of aerosols.
In case of skin contact :	Wash skin thoroughly with mild soap and water.
In case of eye contact :	Flush eyes with water thoroughly and continuously for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
If swallowed :	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
<b>Notes to physician</b>	
Symptoms :	High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).
Hazards :	This product is of low acute toxicity. May cause irritation of the eyes, skin and mucous membranes. Hot vapors may cause lung damage.
Treatment :	Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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## SECTION V – FIRE FIGHTING MEASURES

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Suitable extinguishing media :	SMALL FIRE: Use dry chemicals, CO <sub>2</sub> , water spray or alcoholresistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.
Unsuitable extinguishing media:	Do not use solid water stream.
Specific hazards during fire fighting :	Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustibile at temperatures below normal flash point. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion. Although water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewer/public waters.
Special protective equipment for fire-fighters:	Wear positive pressure self-contained breathing apparatus(SCBA). Structural firefighter’s protective clothing will only provide limited protection.

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## SECTION VII-ACCIDENTAL RELEASE

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Environmental precautions :	Try to prevent the material from entering drains or water courses.
Methods for cleaning up :	Extinguish ignition sources; stop release; prevent flow to sewers or public waters. Notify fire and environmental authorities. Impound/recover large land spill; soak up small spill with inert solids. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

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## SECTION VII- HANDLING AND STORAGE

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### Handling

Advice on safe handling : Handle empty containers with care - residue can burn if heated.  
Empty containers should be thoroughly rinsed with copious amounts of clean water.  
The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

### Storage

Requirements for storage areas and containers: Handle empty containers with care - residue may be combustible.  
Empty containers should be thoroughly rinsed with copious amounts of clean water.  
The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.

Advice on common storage : Carbon/Mild steel with suitable internal coating, or stainless steel

Other data : No decomposition if stored and applied as directed.

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## SECTION VIII- EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control parameters

#### Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

### Exposure controls

#### Engineering measures

No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.

### Personal protective equipment

Respiratory protection : No special respiratory protection equipment is recommended under anticipated conditions of normal use.

Hand protection : Not normally considered a skin hazard.  
Use chemical resistant gloves appropriate to conditions of use.  
Wear chemical resistant gloves such as Nitrile rubber or Latex

Eye and face protection : Use splash goggles when eye contact due to splashing or spraying liquid is possible.

Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of anticipated use.  
Where use can result in skin contact, practice good personal hygiene.

Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.  
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.  
Use good personal hygiene practices.  
Wash hands before eating, drinking, smoking, or using toilet facilities.  
Take off contaminated clothing and wash before reuse.

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## SECTION IX- PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Physical state : liquid at 20 °C (1,013.25 hPa)  
Color : Clear, colorless.  
Odor : Little or no odor.

### Safety data

Flash point : 104 °C at 1000.010 hPa (750.071 mm Hg)  
Lower explosion limit : ~2.4 vol%  
Upper explosion limit : ~17.4 vol%  
Flammability (solid, gas) : Not applicable  
Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Autoignition temperature : > 400 °C at 1000.10 - 1014.40 hPa  
pH : no data available  
Melting point/range : < -20 °C  
Boiling point/boiling range : 184 °C at 1003.20 hPa  
Vapor pressure : 0.2 hPa at 25 °C  
Density : 1.03 g/cm<sup>3</sup> at 20 °C  
Water solubility : at 20 °C Miscible in water.  
Partition coefficient:  
noctanol/water : log Pow: -1.07 at 20.5 °C  
Viscosity, kinematic : 42.1 mm<sup>2</sup>/s at 25 °C  
Relative vapor density : no data available  
Surface tension : 71.6 mN/m 1.01g/l at 21.5 °C  
Other Information : No additional information available

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## SECTION X- STABILITY AND REACTIVITY

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Conditions to avoid : High temperatures, oxidizing conditions.  
May degrade when exposed to light or other radiation sources.  
Materials to avoid : Reacts with strong oxidizing agents.  
Strong acids.  
Isocyanates.

Hazardous decomposition products:	Carbon Monoxide and other toxic vapors.
Thermal decomposition :	Incomplete combustion may produce carbon monoxide and other toxic gases.
Hazardous reactions :	Not expected to occur.

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### SECTION XI- TOXICOLOGICAL INFORMATION

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Product Summary : The below given information is based on the assessment of the product including impurities.

Acute toxicity

Acute oral toxicity : Based on acute toxicity values, not classified.

LD50 Oral: > 5,000 mg/kg

Species: Rat

Acute inhalation toxicity : Based on acute toxicity values, not classified.

LC50 (Inhl): > 20 mg/l

Exposure time: 4 HOURS

Species: Rabbit

Acute dermal toxicity : Based on acute toxicity values, not classified.

LD50 Dermal: > 2,000 mg/kg

Species: Rabbit

Skin corrosion/irritation : Based on skin irritation values, not classified.

May cause slight transient skin irritation.

Serious eye damage/eye irritation: Based on eye irritation values, not classified.

May produce minimal, fully reversible eye irritation.

Respiratory or skin sensitization:

Respiratory sensitization

Not classified

no data available

Skin sensitization

Not classified

Skin reactions of unknown etiology have been described in some hypersensitive individuals following topical application.

Chronic toxicity

Carcinogenicity : Not classified

No adverse effect observed.

Germ cell mutagenicity : Not classified

No adverse effect observed.

Reproductive toxicity

Effects on fertility /

Effects on or via lactation: Not classified

No adverse effect observed.

Effects on Development : Not classified

No adverse effect observed.

Target Organ Systemic

Toxicant - Single exposure: Based on single exposure toxicity values, not classified.

Target Organ Systemic

Toxicant - Repeated exposure:	Based on repeated exposure toxicity values, not classified., Propylene glycol is of low inherent toxicity in rats and dogs after repeated oral exposure, while cats show species-specific hematological changes in red blood cells (other tissues unremarkable). Rats exposed repeatedly to high aerosol concentrations exhibited signs consistent with irritation of the eyes and nasal mucosa but showed no evidence of systemic toxicity.
Aspiration hazard :	Based on physico-chemical values or lack of human evidence, not classified.

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## SECTION XII- ECOLOGICAL INFORMATION

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Ecotoxicity effects	
Toxicity to fish :	Low acute toxicity to fish
Toxicity to daphnia and other aquatic invertebrates:	Low acute toxicity to aquatic invertebrates.
Toxicity to algae :	Low toxicity to algae.
Toxicity to bacteria :	Low toxicity to sewage microbes.
Toxicity to fish (Chronic toxicity)	No study available.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	Low chronic toxicity to aquatic invertebrates.
Elimination information (persistence and degradability)	
Bioaccumulation :	This material is not expected to bioaccumulate.
Surface tension :	71.6 mN/m 1.01g/l at 21.5 °C
Distribution among environmental compartments:	Stability in soil Low potential for soil adsorption expected Stability in water Hydrolytically stable. Molecular structure includes no hydrolysable functional groups
Biodegradability :	Rapidly degradable. 72 - 100 % (After 28 days in a ready biodegradability test)
Further information on ecology	
Ecotoxicology Assessment	
Acute aquatic toxicity :	Based on acute aquatic toxicity values, not classified.
Chronic aquatic toxicity :	Not classified, based on readily biodegradability and low acute toxicity.

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### SECTION XIII- DISPOSAL CONSIDERATIONS

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Product : Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal.  
Landfill solids at permitted sites.  
Burn concentrated liquids, diluting with clean, low viscosity fuel.  
Dilute aqueous waste may biodegrade.  
Assure effluent complies with applicable regulations.

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### SECTION XIV- TRANSPORTATION INFORMATION

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Refer to section 15 for specific national regulation.

Proper shipping  
name

PROPYLENE GLYCOL, not regulated

### SECTION XV- REGULATORY INFORMATION

#### Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

\*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan E	NCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

REACH status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been preregistered or, where required under REACH, registered, and that we have the intention to proceed with any required registration in accordance with the deadlines set forth in REACH. (Regulation (EU) No. 1907/2006)

Contact [product.safety@lyb.com](mailto:product.safety@lyb.com) for additional global inventory information.

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