

# ORISON

## BIOBASED PROPYLENE GLYCOL

### DESCRIPTION

Propylene glycol is a safe, semi viscous chemical fluid utilized in many food, cosmetic and industrial applications. PG provides good antifreeze properties while also providing the safety of very low toxicity. PG is chemically neutral, meaning it does not react with other substances.

### PERFORMANCE

Propylene glycol is very versatile. It is a solvent, an emulsifier, a binder, attracts water, reduces freezing point, increases boiling point and does not react with other chemistries. If you are looking for PG with an inhibitor, please try BioFROST™ or BioFROST™ Eco. If you want to be as safe and green as you can, please choose one of our many glycerin based products.

### SAFETY/ENVIRONMENT

Our propylene glycol is a 100% certified USDA Biobased Product in the USDA BioPreferred® Program. The proprietary technology uses a catalytic process known as hydrogenolysis to readily convert biobased glycerin into propylene glycol. The reaction between glycerin and hydrogen takes place at high temperature and pressure over a unique catalyst to produce propylene glycol and water. As a result, propylene glycol is then purified using proprietary separation technology.

PG is very low in toxicity and is listed as GRAS (generally recognized as safe) for use in food and pharmaceuticals. In fact, from a toxicological point of view, alcohol is more toxic than the same amount of propylene glycol.

Studies have also shown that propylene glycol is neither persistent nor does it bio-accumulate and is therefore readily biodegradable. There are no hazard classifications or labeling of PG.

### APPLICATIONS

Designed for industrial and environmentally sensitive antifreeze, coolant/heat transfer and secondary refrigerant applications, PG is used in several industrial heat transfer/antifreeze applications such as:

- Closed Loop Systems
- Waste Heat Recovery
- Chillers
- Solar Systems
- Floor Heating Systems
- HVAC
- Geothermal Systems
- Hydrostatic/Pressure Testing

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### Typical Properties

Color: Clear (dye available)  
pH: 7  
Specific Gravity (70F): 1.04  
Freeze Point: below -60F  
Boiling Point: 370F

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