

# BY\*PAS FREEZE-OUT PG

NON TOXIC – ANTI FREEZE & HEAT TRANSFER FLUID

## **DESCRIPTION / APPLICATION:**

Safe fluid for use in thermal loop systems and for winterizing! Use this solution in place of water and other water-like fluids too prevent line freeze or possible damage to functioning equipment and safe to use around humans/animals or if possible contact with potable water could occur.

Can be used in: In-floor heating, immersion freezing, snow melt systems, fire hydrant winterization, ice makers, pipe tracing, cooling towers, "air hydronic" heat pumps/furnaces, solar heating, industrial heat transfer, cooling coil defroster!

## **CONTAINER AVAILABILITY:**

5-Gal. Pail, 55 Gal. Drum, 275-Gallon Tote

## **FDA REFERENCE:**

Propylene Glycol: 21 CFR 182.1666

Dipotassium Phosphate: 21 CFR 182.6285

## **HEALTH INFORMATION:**

Gosselin Toxicity Index (Propylene Glycol): 1  
"meaning essentially non-toxic"

Mean Single Lethal (oral) Dosage: Greater than 1L

## **SYSTEM PROTECTION:**

% Freeze Out	Flow Temp	Burst Temp
100%	-70°F	-100°F
75%	-70°F	-100°F
50%	-40°F	-85°F
40%	-15°F	-65°F
30%	0°F	-15°F

Comparable to: DowFrost or Safe-T-Therm

## **ADVANTAGES:**

Super concentrated allows for ultra-low freeze protection when cut with water for excellent economics!

Can be used many applications!

Safe around humans/animals/potable water and is non-toxic!

## **SYSTEM REQUIREMENTS/CAUTIONS:**

- Do not use in systems when temperatures exceed 275°F or in systems that are permanently open to the atmosphere.
- Do not use in steam heat systems.
- Is not to be used as a coolant for internal combustion engines.
- Do not use with other chemicals.
- Do not exceed 20% concentration in CPVC.
- Use Freeze-Out PG-A in aluminum systems especially when temperatures exceed 150°F.
- This product will remove zinc from galvanized materials so contact should be minimized.
- Existing systems require no modification.
- New systems: Expansion tank should be sized to allow 4-5% greater expansion than for plain water in the same temperature range.
- Pump head size should increase by 10% over the minimum requirements for those with plain water.

## **INSTALLATION DIRECTIONS:**

Ask your representative for an instruction sheet.

