

# HOUGHTON CHEMICAL CORPORATION

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## SAFE-T-THERM® N Product Data Sheet

### Inhibited Propylene Glycol Based Heat Transfer Fluid

SAFE-T-THERM® N heat transfer fluid is an inhibited propylene glycol solution formulated for use in hydronic systems for freeze and corrosion protection. SAFE-T-THERM® N contains nitrite to provide enhanced corrosion protection in large standing internal combustion engines where cylinder vibrations may cause waterside pitting.

SAFE-T-THERM® N includes an orange dye, for leak detection. SAFE-T-THERM® N is designed to protect components commonly found in residential and commercial systems. SAFE-T-THERM® N can also be used with aluminum at temperatures below 150°F (66°C). At temperatures above 150°F (66°C), use of SAFE-T-THERM® N is not recommended. SAFE-T-THERM® N should not be used with galvanized steel or Chlorinated polyvinyl chloride (CPVC).

Recommended use temperature range: -50°F (45°C) to 230°F (110°C)

For health and safety information for this product, contact Houghton for a Material Safety Data Sheet (MSDS).

SAFE-T-THERM® N							
Typical Properties by Concentration							
Properties <sup>1</sup>	Conc.	60%	50%	40%	35%	30%	25%
Propylene Glycol	96%	60%	50%	40%	35%	30%	25%
Performance Additives and Water	4%	40%	50%	60%	65%	70%	75%
Appearance	Liquid, Clear, Orange	Liquid, Clear, Orange	Liquid, Clear, Orange	Liquid, Clear, Orange	Liquid, Clear, Orange	Liquid, Clear, Orange	Liquid, Clear, Orange
Specific Gravity (15/15°C 60/60°F)	1.050 - 1.058	1.050 - 1.059	1.043 - 1.054	1.035 - 1.042	1.034 - 1.042	1.029 - 1.038	1.024 - 1.034
pH 50% glycol	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0	9.0 - 10.0
Reserve Alkalinity (min)	12	6	6	4	4	3	3
Freeze Point Max	-22°F / -31°C (as 50%)	-49°F / -45°C	-22°F / -31°C	-4°F / -20°C	4°F / -16°C	10°F / -12°C	15°F / -10°C

<sup>1</sup>Concentrate based on volume of Propylene Glycol, mixtures based on volume of SAFE-T-THERM® N

Typical properties, not to be construed as specifications. As use conditions are not within its control, Houghton does not guarantee results from use of the information or products herein; and gives no warranty, express or implied.

NOTE: These figures are examples only and may not be appropriate to your situation. Generally, for an extended margin of protection, you should select a temperature in this table that is at least 3°C (5°F) lower than the expected lowest ambient temperature. Houghton Chemical Corporation recommends a minimum glycol concentration of 25%. At lesser concentrations the likelihood of bacteria growth increases. Also, at less than 25% concentrations there may not be enough inhibitor present to prevent corrosion of the system metals. Additional inhibitors and/or a biostat can be purchased from Houghton Chemical Corporation.

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