

Houghton Chemical Corporation

Material Safety Data Sheet

"SAFE-T-THERM® HD"



Section 1 - Identification			
Manufacturer Address	Houghton Chemical Corporation 52 Cambridge Street, Allston, MA 02134 1-617-254-1010 or 1-800-777-2466		
Emergency Telephone	Chemtec: 1-800-424-9300		
Chemical Name & Synonyms	Antifreeze		
Chemical Family	Propylene Glycol Based		
Formula	Trade Secret		
CAS Registry Number	Not applicable for blended product		
DOT Shipping Classification	Not regulated		
Product Number	510812, 520812		
Section 2 – Hazardous Ingredients			
This material is NOT HAZARDOUS by OSHA Hazard Communication definition.			
Section 3 – Composition and Information on Ingredients			
Material	CAS #	% by weight	TLV (UNITS)
Propylene Glycol	57-55-6	≈95	Not applicable
Water	7732-18-5	≈2	Not applicable
Sodium Tolytriazole	64665-57-2	<0.5	Not applicable
Corrosion Inhibitors and Dye	TSR#80100075-5002P	≈3	Not applicable
Section 4 - Physical Data			
Boiling Point @760 mm Hg	315°F		
Freezing Point	<-70°F		
Specific Gravity	1.06		
Vapor Pressure at 20°C	0.1		
Vapor Density (air = 1)	2.1		
Solubility in Water	Complete		
% Volatile by Volume	Greater than 95%		
Evaporation Rate (H₂O=1)	<1		
Appearance and Odor	Distinct orange, odorless		
Section 5 - Fire and Explosion Hazard Data			
Flash Point	325°F		
Auto Ignition Temperature	>700°F		
Flammable Limits in Air	≈2.6 – 12.5		
Extinguishing Media	Alcohol Foam		
Special Fire Fighting Procedures	Not applicable		
Unusual Fire and Explosion Hazards	None		
Section 6 – Reactivity Data			
Stability	This material is stable		
Incompatibility	Keep away from strong oxidizing agents		
Hazardous Decomposition Products	Not applicable		
Hazardous Polymerization	Will not occur		
Section 7 – Health Hazard Data			
Threshold Limit Value	Nuisance Dust 15 mg/M ³ 8 hours		
Eye Contact	Irritation may result		
Skin Contact	No significant symptoms expected		
Inhalation	This material is not expected to be a respiratory hazard except if aspirated. If swallowed, can enter lungs and cause damage.		
Ingestion	If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhea may occur. Aspiration during ingestion or vomiting may cause lung damage.		

Emergency and First Aid Procedures	
Eyes	Flush with plenty of water for at least 15 minutes
Skin	Flush with plenty of water, wash with mild soap if available
Inhalation	Remove to fresh air
Ingestion	DO NOT induce vomiting, aspiration may cause lung damage; seek medical advice.
Section 8 – Spill or Leak Procedures	
Steps to be Taken if Material is Spilled or Released	This liquid is biodegradable but large spills may contaminate public waters. Prevent flow to sewers/public waters. Restrict clean up water use. Notify water supply environment authorities. Impound/recover large land spills. Soak up small spills with absorbent material. Use suitable disposal containers. High biodegradability can stimulate algae growth. Dispose residue to reduce possible aquatic harm.
Waste Disposal Method	Consult with local sewer, municipal, state and/or federal agencies to determine appropriate current disposal options.
Section 9 – Special Protective Information	
Respiratory Protection	Not applicable
Ventilation	None needed under anticipated conditions of normal use beyond that needed for normal comfort control.
Protective Gloves	If contact with hot liquid possible use suitable protective gloves.
Eye Protection	If contact with hot liquid possible use suitable splash goggles and face shield.
Other Protective Equipment	Not applicable
Section 10 – Special Precautions	
Precautions to be taken in Handling and Storage	Follow good work/hygiene practices. Provide safety shower and wash in immediate area. Workers should wash with soap and water before eating, smoking or using toilet facilities. Launder contaminated clothing before re-use.