

# Houghton Chemical Corporation

## Safety Data Sheet



### SAFE-T-THERM® GRAS Reinhibitor

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	<b>CHEMTREC: 1-800-424-9300</b>		
Chemical Name & Synonyms	Corrosion Inhibitor		
Chemical Family	Aqueous Solution		
Recommended Use	Heat Treansfer Fluid Additive Package		
Restrictions on Use	Mix container well before use.		
Section 2 – Hazard(s) Identification			
Hazard Classification	Acute Toxicity, Oral: Category 4		
Signal Word	Warning		
Hazard Statement	Harmful if swallowed.		
Pictogram Description	GHS: Exclamation Point		
Precautionary Statement	Precautionary Statements: Prevention: Wash hands and other contacted skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Response: If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. Storage: Disposal: Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options for the product. Dispose of this container with a registered reconditioner or as otherwise appropriate.		
Any other Hazard not otherwise classified	Not Applicable		
Section 3 – Composition and Information on Ingredients			
Chemical Name	Common name and synonyms	CAS #	% by weight
Identity Withheld as a Trade Secret	N/A	TSR#80100075-5002P	50%
Water	N/A	7732-18-5	50%
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
Section 4 – First aid Measures			
Symptoms of Exposure			
Acute	Irritation of affected area with symptoms of reddening, itching.		
Delayed	Irritation		
Inhalation	Vapors and mists cause respiratory irritation and may cause coughing, burning and pain.		
Skin	Irritation may result		
Eye Contact	Irritation may cause transitory stinging and tearing.		
Ingestion	Very low toxicity if ingested. Ingestion of larger amounts may cause gastrointestinal upset.		
First Aid Instructions			
Inhalation	Remove to fresh air. If symptoms persist, seek medical attention.		
Skin	Wash skin with soap and water. Remove any contaminated clothing. Seek medical attention if irritations develops or persists.		
Eye Contact	Flush with water for at least 20 minutes. Seek medical attention if irritation develops or persists.		
Ingestion	DO NOT induce vomiting, seek medical attention.		
Other	Not Applicable		

<b>Section 5 – Fire Fighting Measures</b>	
Suitable Extinguishing Material	<b>Not combustible. Use extinguishing media suitable for surrounding fire.</b>
Unsuitable Extinguishing Material	No Data Available
Hazards from Combustion	Smoke may contain the original material in addition to but not limited to: Carbon Monoxide, Carbon Dioxide..
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.
<b>Section 6 – Accidental Release Measures</b>	
Use of personal precautions	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment.
Protective equipment to prevent the contamination of skin, eyes, and clothing.	Use of safety glasses or goggles is recommended. Chemical resistant gloves, chemical resistant apron, boots, and full suit will be necessary depending on the extent of clean up task. If ventilation does not control airborne concentration then respiratory protection equipment that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements should be used.
Methods and materials used for containment	Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.
Cleanup procedures	Do not flush to sewer. Comply with all federal, state, and local regulations.
<b>Section 7 – Handling and Storage</b>	
Precautions for safe handling	Protect container from physical damage. Wear appropriate personal protection equipment. Do not expose containers to open flame, excessive heat, or direct sunlight. Use local exhaust over processing area. Do not eat, drink or smoke around products.
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.	Store in a cool, dry and well ventilated area away from sources of heat, moisture and incompatible materials. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination.
<b>Section 8 – Exposure Controls/Personal Protection</b>	
OSHA Permissible Exposure Limits (PELs)	Not Applicable
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	Not Applicable
Other Exposure Limits	Not Applicable
Engineering Control	Use mechanical (general) ventilation to control airborne levels below exposure guidelines.
Individual Protection Measures	Wear protective safety glasses or goggles, gloves, apron, vapor respirator.
<b>Section 9 – Physical and Chemical and Chemical Properties</b>	
Appearance (physical state, color, etc.)	Liquid, Clear, Colorless
Upper/lower flammability or explosive limits	Not Explosive
Odor	Slight to no odor
Vapor pressure	Not Applicable
Odor threshold	Not Applicable
Vapor density (air = 1)	Not Applicable
pH	As is 9.0 - 11.0, As 1% concentration 8.5 - 9.5
Relative density	1.30-1.80@60°F
Freezing point (as 50%)	Not Applicable
Solubility(ies)	Miscible in water
Initial boiling point and boiling range	Not Applicable
Flash point	No Data Available
Evaporation rate (Butyl Acetate = 1)	<1
Flammability (solid, gas)	Not Applicable
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	Not Applicable
Decomposition temperature; and	Not Applicable
Viscosity	Not Applicable

<b>Section 10 – Stability and Reactivity</b>					
Reactivity	Product is stable under typical use temperatures.				
Chemical Stability	Product is stable under typical use temperatures.				
Hazardous Reactions	Avoid contact with oxidizing materials and strong acids.				
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.				
Incompatible Materials	Avoid contact with oxidizing agents and strong acids.				
Decomposition Products	Oxides of phosphorus, carbon and potassium may form when heated to decomposition.				
<b>Section 11 – Toxicological Information</b>					
Likely Routes of Exposure			Eyes / Skin / Ingestion / Inhalation		
	<b>Effects from Short Term Exposure</b>		<b>Effects from Long Term Exposure</b>		
Delayed Effects	Irritation of affected area		Irritation of affected area		
Immediate Effects	Irritation of affected area		Irritation of affected area		
Chronic Effects	Not Applicable		Lactic acidosis, stupor and seizures have been reported following chronic ingestion.		
The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose.			Skin: The LD50 for skin absorption in rabbits is >5,000 mg/kg Ingestion: The oral LD 50 for rats is 4810 mg/kg.		
Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.			Irritation of affected areas.		
<b>Listed in the National Toxicology Program (NTP) Report on Carcinogens?</b>	No	<b>Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs?</b>	No	<b>Found to be a potential carcinogen by OSHA?</b>	No
<b>Section 12 – Ecological Information</b>					
Ecotoxicity	No Data Available				
Persistence and Degradability	No Data Available				
Bioaccumulation	No Data Available				
Mobility in Soil	No Data Available				
Other Adverse Effects	No Data Available				
<b>Section 13 – Disposal Considerations</b>					
Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options					
<b>Section 14 – Transport Information</b>					
Is product DOT regulated in Non-Bulk packaging?				No	
<b>DOT BULK</b>					
UN number				Not Regulated	
UN proper shipping name				Not Regulated	
Transport hazard class(es)				Not Regulated	
Packing group number				Not Regulated	
Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))				Not Regulated	
Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code))				Not Regulated	
Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises				Not Regulated	

<b>Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)</b>		
Safety Regulations	OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Health Regulations	Not Available	
Environmental Regulations	Not Available	
SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - No; Delayed (Chronic) Health Hazard - No; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.
HMIS	Blue/Health	0
	Red/Flammability	0
	Orange/Physical Hazard	0
	White/Personal Protection	X
NFPA 0(no hazard) to 4(severe risk)	Health (Blue)	0
	Flammability (Red)	0
	Instability/Reactivity (Yellow)	0
	Special (White)	0
US Toxic Substance Control Act	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30	
CEPA – Domestic Substances List (DSL)	No data available	
<b>Section 16 – Other Information</b>		
The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/ user's responsibility to ensure that activities comply with all federal, state, provincial or local law.		
Revision Date: 7/19/2016		