

Houghton Chemical Corporation

Safety Data Sheet



SAFE-T-THERM® AL 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	CHEMTREC: 1-800-424-9300		
Chemical Name & Synonyms	Corrosion Inhibitor		
Chemical Family	Organic Acid Mixture		
Recommended Use	Heat Transfer Fluid Inhibitor		
Restrictions on Use	Use only as directed in approved applications.		
Section 2 – Hazard(s) Identification			
Hazard Classification	Skin Irritation, Category 2 Eye Damage, Category 1 Toxic to Reproduction, Category 2 Specific target organ toxicity-- single exposure, Category 3		
Signal Word	Danger		
Hazard Statement	Causes Skin irritation. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging the unborn child.		
Pictogram Description	GHS: Corrosives, Health Hazard, Exclamation Point		
Precautionary Statement	<p>Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and other contacted skin thoroughly after handling. Wear eye & face protection and protective gloves & clothing. Avoid breathing fumes or vapors. Use only outdoors or in a well-ventilated area.</p> <p>Response: If on skin: Take off contaminated clothing and wash it before reuse. Wash with soap and plenty of water. If skin irritation occurs: Get medical attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or a doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed or concerned: Get medical advice.</p> <p>Storage: Keep container tightly closed. Store in a well-ventilated place. Store locked up.</p> <p>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.</p>		
Any other Hazard not otherwise classified	Not Applicable		
Section 3 – Composition and Information on Ingredients			
Chemical Name	Common name and synonyms	CAS #	% by weight
Potassium 2-Ethylhexanoate	N/A	3164-85-0	30 - 60
Potassium tolyltriazole	N/A	64665-53-8	1 - 5
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	Not expected to present a significant hazard under anticipated conditions of typical use.		
Delayed	Not expected to present a significant hazard under anticipated conditions of typical use.		
Inhalation	Not expected to present a significant hazard under anticipated conditions of typical use.		
Skin	Causes skin irritation.		

Eye Contact	Causes serious eye damage.
Ingestion	Not expected to present a significant hazard under anticipated conditions of typical use.
First Aid Instructions	
Inhalation	Allow breathing of fresh air. Allow the victim to rest.
Skin	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye Contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Other	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Section 5 – Fire Fighting Measures	
Suitable Extinguishing Material	Alcohol-resistant foam, dry chemical, sand and carbon dioxide.
Unsuitable Extinguishing Material	Do not use a heavy water stream.
Hazards from Combustion	No additional information available.
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.
Section 6 – Accidental Release Measures	
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.	Equip cleanup crew with proper protection. Ventilate the area.
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.
Section 7 – Handling and Storage	
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.	Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use. Avoid contact with strong bases and strong acids. Keep away all sources of ignition. Keep out of direct sunlight.
Section 8 – Exposure Controls/Personal Protection	
OSHA Permissible Exposure Limits (PELs)	N/A
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	N/A
Other Exposure Limits	N/A
Engineering Control	Use outdoors or with adequate local ventilation.
Individual Protection Measures	Wear eye & face protection and protective gloves & clothing.
Section 9 – Physical and Chemical and Chemical Properties	
Appearance (physical state, color, etc.)	A clear, light yellow liquid
Upper/lower flammability or explosive limits	No Data Available
Odor	slight odor
Vapor pressure	N/A
Odor threshold	No data available
Vapor density (air = 1)	N/A
pH	10.5
Relative density	1.113
Freezing point (as 50%)	N/A
Solubility(ies)	Miscible in water
Initial boiling point and boiling range	No data available
Flash point	NA
Evaporation rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	No data available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature; and	No data available

Viscosity	No data available				
Section 10 – Stability and Reactivity					
Reactivity	No additional information available.				
Chemical Stability	Not established.				
Hazardous Reactions	Not established.				
Conditions to Avoid	Direct sunlight. Extremely high or low temperatures.				
Incompatible Materials	Strong acids. Strong bases.				
Decomposition Products	Fume. Carbon monoxide. Carbon dioxide.				
Section 11 – Toxicological Information					
Likely Routes of Exposure	Eyes / Skin / Ingestion / Inhalation				
	Effects from Short Term Exposure		Effects from Long Term Exposure		
Delayed Effects	Causes skin irritation. Causes eye damage.		No data available		
Immediate Effects	Causes skin irritation. Causes eye damage. pH = 10.5.		Causes eye damage.		
Chronic Effects	No data available.		No data available.		
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.			ATE oral 500,000 mg/kg body weight		
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 and pain to skin contact. Pain and damage to eye contact.		
Listed in the National Toxicology Program (NTP) Report on Carcinogens?	Not listed.	Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs?	Not listed.	Found to be a potential carcinogen by OSHA?	Not listed.
Section 12 – Ecological Information					
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				
Section 13 – Disposal Considerations					
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					
Section 14 – Transport Information					
Is product DOT regulated in Non-Bulk packaging?				Yes	
DOT BULK					
UN number			UN3267		
UN proper shipping name			Corrosive liquid, basic, organic, n.o.s. (Contains: Potassium Tolyltriazole)		
Transport hazard class(es)			8		
Packing group number			II		
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))			Yes		

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 Applicable
Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)		
Safety Regulations	Not Available	
Health Regulations	No data available	
Environmental Regulations	SARA 313: This product does not contain a toxic chemical in excess of the applicable de minimis concentration.	
SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312	No Data Available.
HMIS	Blue/Health	2
	Red/Flammability	0
	Orange/Physical Hazard	0
	White/Personal Protection	C
NFPA 0(no hazard) to 4(severe risk)	Health (Blue)	2
	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	
Section 16 – Other Information		
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: 10/5/2017		