Houghton Chemical Corporation

Safety Data Sheet



SAFE-T-THERM® HD

			Section 1 - Identificat	tion					
			ighton Chemical Corporation						
Manufacturer Address		52 Cambridge Street, Allston, MA 02134							
		1-617-254-1010 or 1-800-777-2466							
Emergency Telep			EMTREC: 1-800-424-9300						
Chemical Name 8	Synonyms		ifreeze/Inhibited Propylene Glyco	l					
Chemical Family			pylene Glycol Mixture						
Recommended Us			at Transfer Fluid						
Restrictions on Us	se		tion to 50% is generally recommo		eet local c	ondition.			
			Section 2 – Hazard(s) Iden	tification					
Hazard Classificat	tion		Not Applicable						
Signal Word			Applicable						
Hazard Statement	t	Sta	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product.						
Pictogram Descrip	otion		Applicable						
Precautionary Statement Precautionary Statement I		Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing vapor. Avoid release to the environment. Do not leave container open. Do not store in unlabeled containers. Do not eat, drink or smoke when using this product. Wear eye protection & protective gloves. Store tightly closed in a cool, dry, well-ventilated place. Loosen bung cautiously to relieve any pressure. Never use pressure to empty. IF SWALLOWED: Do NOT induce vomiting. Get medical attention if you feel unwell. IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. IF eye irritation persists: get medical attention. IF ON SKIN: Take off contaminated clothing. Wash with soap and plenty of water. Wash contaminated clothing before reuse. FOR LEAKS AND SPILLS: Eliminate all ignition sources. Stop leak if present and safe to do so. Contain spill. Collect spillage & absorb with inert material. Store collected material inapproved containers for proper disposal or recovery. IN CASE OF FIRE: Use water, water spray, water fog, alcohol-resistant foam, dry chemical, sand or carbon dioxide to extinguish.product. Wear protective gloves, eye and face equipment. Store in a cool, dry and well-ventilated location. Avoid release to the environment.							
classified	Section	Not Applicable 3 - Composition and Information on Ingredients							
Chemical Name	Jection	. <u></u>	Common name and synonyms	CAS #		% by weight			
Propylene Glycol			1,2 - Propanediol	57-55-6		95%			
Water		+	N/A	7732-18-5		2.5%			
Inhibitors & Dye		+	N/A	Proprietary		2.5%			
Illibitors & Dye		+	13// 3	i Toprietary		L.U /0			
		1	Section 4 – First aid Mea	asiires					
			Symptoms of Exposur						
Acute	Irritation of affo	cted .							
Delayed	Irritation of affected area Irritation								
Inhalation	Vapors and mists expected to be slightly irritating to upper respiratory tract.								
Skin	Irritation may result								
Eye Contact	Irritation may cause transitory stinging and tearing.								
-	Very low toxicity if ingested. Ingestion of larger amounts may cause gastrointestinal upset and								
Ingestion	possible temporary central nervous system depression.								

			First Aid Instructions				
Inhalation	Remove to fresh air. If		ms persist, seek medical attention.				
			r. Remove any contaminated clothing. Seek medical attention if				
Skin	irritations develops or persists.						
Eye Contact	Flush with water for at least 20 minutes. Seek medical attention if irritations develops or persists.						
Ingestion	DO NOT induce vomiting, seek medical attention.						
Other	Not Applicable						
	Se		5 – Fire Fighting Measures				
Suitable Extingui	ishing Material		, water fog, water spray, alcohol-resistant foam, dry chemical, sand,				
Unsuitable Extinu	guishing Material		bon dioxide. ta Available				
			e may contain the original material in addition to but not limited to: oxides				
Hazards from Co		of phos	sphorus, potassium, carbon, nitrogen, sulfer and hydrogen chloride.				
Special Protectiv	e Equipment for		self-contained breathing apparatus and protective suit. Evacuate				
Firefighters			nnel to safe areas and keep upwind of fire.				
	Section	on 6 –	Accidental Release Measures				
Use of personal	precautions		Ventilate area of leak or spill. Remove all sources of ignition. Wear				
·			appropriate personal protective equipment. Usage of safety glasses or googles is recommended. Chemical				
			resistant gloves, chemical resistant apron, boots, and full suit will be				
Protective equip	ment to prevent the		necessary depending on the extent of clean up task. If ventilation does				
	skin, eyes, and clothing.		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 ma	aterials used for containm	ent	Collect liquid in an appropriate container or absorb with inert material				
Wethous and ma	denais used for containin	GIIL	and place in chemical waste container.				
Cleanup procedu	ures		Do not flush to sewer. Comply with all federal, state, and local				
			regulations.				
	S	ection	7 – Handling and Storage				
			Protect container from physical damage. Wear appropriate personal				
Precautions for safe handling			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.				
			Store in a cool, dry and ventilated area away from sources of heat,				
Recommendation	ns on the conditions for s	afe	moisture and incompatible materials. Observe all warnings and				
	handling incompatibilitie		precautions listed for the product. Keep container closed to prevent				
• • • • • •			contamination.				
			sure Controls/Personal Protection				
	ole Exposure Limits (PELs	s)	Not Applicable				
American Conference of Governmental							
	nists (ACGIH) Threshold L	.imit	Not Applicable				
Values Other Exposure	I imits		AIHA WEEL is 10 mg/m3 for total vapor and aerosol.				
•			Use mechanical (general) ventilation to control airborne levels below				
Engineering Con	ntrol		exposure guidelines.				
Individual Drotes	ation Moonures		Wear protective safety glasses or goggles, gloves, apron, vapor				
Individual Protection Measures			respirator.				
Section 9 – Physical and Chemical and Chemical Properties							
Appearance (phy	ysical state, color, etc.)		Liquid, Clear; Color may be orange, blue, colorless, green, pink, red, or				
Upper/lower flammability or explosive limits		ts	yellow Not Explosive; LOWER: 2.6% (v) UPPER: 12.5% (v)				
Odor		•	Slight to no odor				
Vapor pressure			133 Pa / 0.1 mmHg				
Odor threshold			Not Applicable				
Vapor density (air = 1)			2.10				
pH			9.0 - 11.0				
Relative density			1.057 - 1.067				
Freezing point (a	as 50%)		-23°F / -31°C				

0.1.13% (*)									
Solubility(ies)			Miscible in water						
Initial boiling point a	nd boiling rang	e		311°F / 155°C					
Flash point				225°F / 107°C					
Evaporation rate (Bu		1)	<1						
Flammability (solid,			Not Flamm						
Partition coefficient:		er	No Data A						
Auto-ignition temper			> 700°F / >						
Decomposition temp	perature; and		Not Applic						
Viscosity			~75 cps at						
				lity and Reactivity					
Reactivity				ole under typical use temperatures.					
Chemical Stability				pical use temperature					
Hazardous Reaction	าร			ng materials and stror					
Conditions to Avoid				rces and incompatible					
Incompatible Materi	als			ng agents and strong a					
Decomposition Prod	lucts			n monoxide may form ner organic acids may		decomposition.			
				logical Information					
Likely Routes of Exp	nosure	Occion I		s / Skin / Ingestion / In					
LINEIN MOULES OF EX		Short Term			rom Long Term	Evnosura			
Delayed Effects	Irritation of aff		LAPOSUIE	Irritation of affected a		Exposure			
Immediate Effects	Irritation of aff			Irritation of affected a					
IIIIIIediale Lifects	Not Applicable					ave been reported			
Chronic Effects				Lactic acidosis, stupor and seizures have been reported following chronic ingestion.					
The numerical meas				Skin: The LD50 for skin absorption in rabbits is >10,000					
estimates such as the				mg/kg Ingestion: Th	ne oral LD 50 for r	rats is 20,000 mg/kg			
estimated amount [c	of a substance]	expected to k	kill 50% of						
test animals in a sin	gle dose.								
Description of the sy	mptoms. This	description in	cludes the	Irritation of affected a	areas. Lactic acido	osis, stupor and			
symptoms associate	ed with exposu	re to the chem	nical	seizures.					
including symptoms	from the lowes	st to the most	severe						
exposure.									
			d to be a						
Listed in the		poten							
National			nogen in the		Found to be				
Toxicology	No	Intern	ational	No	a potential	No			
Program (NTP)	INO	Agend	cy for	INO	carcinogen	INO			
Report on		Resea	arch on		by OSHA?				
Carcinogens?		Cance	er (IARC)						
		Mono	graphs?						
		Section	12 - Ecolo	ogical Information	n				
Ecotoxicity	Low Ecoto	xicity							
Persistence and		•							
Degradability	Biodegrad	Biodegradable							
Bioaccumulation									
				oil, it will be highly mo	bile and may cor	ntaminate ground			
Mobility in Soil water water in product criters soil, it will be highly mobile and may contaminate ground water									
Other Adverse	No Data A	No Data Available							
Effects									
				sal Consideration					
				ter. Contact local sewe	ər, municipal, stat	te and/or federal			
agencies to determi	ne appropriate								
				sport Information	<u> </u>				
Is product DOT regulated in Non-Bulk packaging?									
DOT BULK									
UN number					Not Regulated				
UN proper shipping name									
UN proper shipping	name				Not Regulate	ed			
UN proper shipping Transport hazard cla					Not Regulate Not Regulate				

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

premises								
Section 15 – Regula		nformation (Not indicated an						
Safety Regulations	OSHA Hazard Communication Standard: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard CommunicationStandard, 29 CFR 1910.1200.							
Health Regulations	Not A	Not Available						
Environmental Regulations	Not A	vailable						
SARA 311/312	mate healtl	d upon available information, this rial is classified as the following n and/or physical hazards rding 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.					
		Health	0					
HMIS		Flammability	1					
		ge/Physical Hazard	0					
		e/Personal Protection	X					
		h (Blue)	0					
NFPA		mability (Red)	1					
0 (no hazard) to 4 (severe risk) Insta		oility/Reactivity (Yellow)	N/A					
	Spec	ial (White)	0					
US Toxic Substance Control Act		Components of this product listed in the February 2019 TSCA Inventory update are designated as ACTIVE or are exempt from Inventory requirements under 40 CFR 720.30						
CA Proposition 65		This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.						
CEPA – Domestic Substances List (DSL)	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.						

Section 16 – Other Information

This SDS is applicable for all dilutions, colors, and containers for this brand of product. 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.

Product Dilutions Differentials								
Properties ¹	60%	50%	40%	35%	30%	25%		
SAFE-T-THERM® HD	60%	50%	40%	35%	30%	25%		
Performance Additives and Water	40%	50%	60%	65%	70%	75%		
Specific Gravity (15/15°C 60/60°F)	1.055 - 1.062	1.050 - 1.060	1.040 - 1.050	1.035 - 1.045	1.032 - 1.042	1.030 - 1.040		
Reserve Alkalinity (minimum)	10	8	6	6	5	4		

HCC ID: 510812-H01-200824

Freeze Point (maximum)	-49°F / -45°C	-23°F / -31°C	-4°F / -20°C	4°F / -16°C	10°F / -12°C	15°F / -10°C		
¹ Data for the concentrate is based on volume of Propylene Glycol; data for mixtures is based on volume of SAFE-T-THERM® HD.								
Revision Date: 8/24/2020								