Houghton Chemical Corporation

Safety Data Sheet



SAFE-T-THERM® HD Biobased

			Section 1 - Identification	tion			
5		Houg	oughton Chemical Corporation				
		52 Ca	52 Cambridge Street, Allston, MA 02134				
			1-617-254-1010 or 1-800-777-2466				
3 7 1		EMTREC: 1-800-424-9300					
		reeze/Inhibited Propylene Glyco	I				
Chemical Family Propy		ylene Glycol Mixture					
Recommended Use Heat			Transfer Fluid				
			on to 50% is generally recommended: dilute to meet local condition.				
			ection 2 – Hazard(s) Iden	tification			
			Applicable				
			Applicable				
Hazard Statement Stand		e this material is not considered hazardous by the OSHA Hazard Communication dard (29 CFR 1910.1200), this SDS contains valuable information critical to the handling and proper use of this product.					
Pictogram Descri	ption		Applicable	•			
			container tightly closed. Keep	away from heat, spa	arks or open flames. No		
Precautionary Statement smc equ		smok equip	moking, drinking or eating around product. Wear protective gloves, eye and face quipment. Store in a cool, dry and well-ventilated location. Avoid release to the nvironment.				
Any other Hazard not otherwise classified Not A			Applicable				
	Section 3 – Composition and Information on Ingredients						
Chemical Name		C	Common name and synonyms	CAS#	% by weight		
Propylene Glycol material)	Propylene Glycol (Bioderived 1		1,2 - Propanediol	57-55-6	95%		
Water		N	N/A	7732-18-5	2.5%		
Inhibitors & Dye		N	N/A	Proprietary	2.5%		
			Section 4 – First aid Me				
Acute	Irritation of affe	otod or	Symptoms of Exposur	е			
Delayed	Irritation	cieu ai	rea				
Inhalation		ctc ovn	poeted to be clightly irritating to a	inner recniratory tra	not		
Skin		Vapors and mists expected to be slightly irritating to upper respiratory tract. Irritation may result					
Eye Contact			ansitory stinging and tearing.				
•			ested. Ingestion of larger amou	ints may cause das	strointestinal upset and		
Ingestion			entral nervous system depression		aromioomia apoot and		
	possible terripe	rary oc	First Aid Instructions				
Inhalation	Remove to free	sh air. I	f symptoms persist, seek medic				
			and water. Remove any contam		ek 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							
		S	ection 5 – Fire Fighting N	leasures			
Suitable Extinguis	shing Material		Water, water fog, water spray, alcohol foam, dry chemical or carbon dioxide				
Unsuitable Exting	uishing Material		No Data Available				
	Hazards from Combustion		Smoke may contain the original material in addition to but not limited to: oxides of phosphorus, potassium, carbon, nitrogen, sulfer and hydrogen chloride.				
Special Protective	Equipment for		Wear self-contained breathing apparatus and protective suit. Evacuate				
Openial i Toteotive Equipment for		wear sein-contained breathing apparatus and protective suit. Evacuate					

Firefighters	persor	nel to safe areas and keep upwind of fire.				
		Accidental Release Measures				
		Ventilate area of leak or spill. Remove all sources of ignition. Wear				
Use of personal precautions		appropriate personal protective equipment.				
Protective equipment to prevent the contamination of skin, eyes, and cl		Usage of safety glasses or googles 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 co	ntainment	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				
		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				
Precautions for safe handling		area. Do not eat, drink or smoke around products.				
Recommendations on the condition storage, Storage/handling incompa		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.				
		sure Controls/Personal Protection				
OSHA Permissible Exposure Limits		Not Applicable				
American Conference of Government Industrial Hygienists (ACGIH) Three Values	ental	Not Applicable				
Other Exposure Limits		AIHA WEEL is 10 mg/m3 for total vapor and aerosol.				
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.				
Section 9	- Physical	and Chemical and Chemical Properties				
Appearance (physical state, color,		Liquid, Clear, Green				
Upper/lower flammability or explos	ive limits	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)		2.1				
pH		9.0 - 10.7				
Relative density		1.057 - 1.067				
Relative density Freezing point (as 50%)		1.057 - 1.067 -23°F / -31°C				
Relative density Freezing point (as 50%) Solubility(ies)		1.057 - 1.067 -23°F / -31°C Miscible in water				
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			nydes, alcohols or ot			iv aist	ne formed	
E			tion 11 – Toxico			_	be formed.	
	ff t - f -			s / Skin / Inge			ation	
Dolovod Effocto Irrit	Effects from Short Term Exposure						Long Term Exposur	'e
		affected		Irritation of affected area				
		affected	area	Irritation of a				
Chronic Effects No	Lactic acidosis, stupor and seizures have been reported following chronic ingestion.				•			
The numerical measure estimates such as the L estimated amount [of a test animals in a single	Skin: The LD50 for skin absorption in rabbits is >10,000 mg/kg Ingestion: The oral LD 50 for rats is 20,000 mg/kg							
Description of the symptoms. This description include symptoms associated with exposure to the chemical including symptoms from the lowest to the most seve exposure.				Irritation of affected areas. Lactic acidosis, stupor and seizures.				
Listed in the National		No	Carcinogen in the international No		р	ound to be a otential carcinogen y OSHA	No	
		Se	ection 12 - Ecolo	ogical Info	rmatio	on		
Ecotoxicity	Low Ec	otoxicity						
Persistence and Degradability	Biodegi	radable						
Bioaccumulation	Does not bioaccumulate significantly							
Mobility in Soil	Dissolves in water. If product enters soil, it will be highly mobile and may contaminate ground water							
Other Adverse Effects	No Data Available							
		Sec	ction 13 - Dispo	sal Consid	leratio	ns		
Do not dump into sewer agencies to determine a				ter. Contact lo	ocal sev	ver, n	nunicipal, state and/or	federal
			ection 14 – Tran	sport Infor	matio	n		
Is product DOT regulate	ed in No			No				
			DOT	BULK				
UN number				Not Regulated				
UN proper shipping nar	ne						Not Regulated	
Transport hazard class(es)				Not Regulated				
Packing group number				Not Regulated				
Environmental hazards International Maritime D					the	Not Regulated		
Guidance on transport in bulk (according to Annex II of MARI International Code for the Construction and Equipment of Sh Chemicals in Bulk (International Bulk Chemical Code (IBC Co				ps Carrying D		us Not Regulated		
Any special precautions which an employee should be aware with, in connection with transport or conveyance either within premises				of or needs to		Not Regulated		
	– Reg	gulatory	Information (No	ot indicated	d anyv	wher	e else on this SD	S)
Safety Regulations OSHA Hazard Commu Chemical" as defined to 1910.1200.			nication Stand	dard: Tl	his pro	oduct is not a "Hazard	ous	
Health Regulations			Not Available					
Environmental Regulations			SDA certified biobase					
SARA 311/312		ma he	sed upon available in Aterial is classified as Alth and/or physical loording to Section 3	Reauthorization Act of 1986 Title (SARA) Sections 311 and 312:		Title III 12:		

			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.		
	Blue/	Health	0		
HMIS	Red/l	Flammability	1		
TilviiS	Oran	ge/Physical Hazard	0		
	White	e/Personal Protection	X		
	Healt	h (Blue)	0		
NFPA	Flam	mability (Red)	1		
0(no hazard) to 4(severe risk)	Spec	ial (White)	0		
	Instal	oility/Reactivity (Yellow)	N/A		
US Toxic Substance Control Act		All components of this product are	on the TSCA Inventory or are exempt		
		from TSCA Inventory requirement	s under 40 CFR 720.30		
CERA Domostic Substances List (JSI)	All substances contained in this product are listed on the Canadian Domestic			
CEPA – Domestic Substances List (I	JGL)	Substances List (DSL) or are not required to be listed.			

Section 16 – Other Information

This SDS is applicable for all dilutions 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 Biobased	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 (min)	10	8	6	6	5	4	
Freeze Point Max	-49°F / -45°C	-23°F / -31°C	-4°F / -20°C	4°F / -16°C	10°F / -12°C	15°F / -10°C	
Revision Date: November 14, 2014							