Houghton Chemical Corporation

Safety Data Sheet



SAFE-T-THERM® PDO BioGreen

Section 1 - Identification									
Manufacturer Add	ress		bughton Chemical Corporation						
		52 Cambridge Street, Allston, MA 02134							
			17-254-1010 or 1-800-777-2466						
	Emergency Telephone CHEMTREC: 1-800-424-9300								
Chemical Name 8	Synonyms								
Chemical Family									
Recommended U			at Transfer Fluid		11.0				
Restrictions on Us	se		Dilution to 50% is generally recommended: dilute to meet local condition.						
Llazard Classifiaa	tion		Section 2 – Hazard(s) Identification						
Hazard Classifica Signal Word			Not Applicable						
Signal Word			Not Applicable While this material is not considered hazardous by the OSHA Hazard Communication						
Hazard Statemen									
	L		Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product.						
Pictogram Descrip	otion		t Applicable						
Fictogram Descrip				thing Do not take internal	v Avoid breathing				
		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.							
Precautionary Sta		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							
an		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.						
Any other Hazard not otherwise									
classified			Not Applicable						
Section 3 – Composition and Information on Ingredients									
Chemical Name			Common name and synonyms	CAS #	% by weight				
1,3-Propanediol			N/A	504-63-2	25-75%				
Water			N/A 7732-18-5		25-75%				
Corrosion Inhibitors, Performance			N/A	TSR#40670300-500P	<5%				
Additives & Dye									
N/A			N/A	N/A	N/A				
Section 4 – First aid Measures									
Symptoms of Exposure									
Acute	Irritation of affected area								
	Delayed Irritation								
Inhalation	Vapors and mists expected to be slightly irritating to upper respiratory tract.								
Skin	Irritation may result								
Eve Contact	Irritation may cause transitory stinging and tearing.								

Ingestion			gestion of larger amounts may cause gastrointestinal upset and				
Ingestion	possible temporary cer		vous system depression.				
			First Aid Instructions				
Inhalation			ms persist, seek medical attention.				
Skin	Wash skin with soap a irritations develops or		r. Remove any contaminated clothing. Seek medical attention if				
Eye Contact			minutes. Seek medical attention if irritations develops or persists.				
Ingestion	DO NOT induce vomit						
Other Not Applicable							
		ection	5 – Fire Fighting Measures				
Suitable Extinguis			water fog, water spray, alcohol foam, dry chemical or carbon				
-	-	dioxid	9				
Unsuitable Exting			ta Available				
Hazards from Co	mbustion		e may contain the original material in addition to but not limited to: oxides sphorus, potassium, carbon, nitrogen, sulfer and hydrogen chloride.				
Special Protective	e Equipment for		self-contained breathing apparatus and protective suit. Evacuate				
Firefighters			nel to safe areas and keep upwind of fire.				
	Section		Accidental Release Measures				
llas ef er e			Ventilate area of leak or spill. Remove all sources of ignition. Wear				
Use of personal p	precautions		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 equipment	nent to prevent the		necessary depending on the extent of clean up task. If ventilation does				
contamination of	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 mat	terials used for containm	ent	Collect liquid in an appropriate container or absorb with inert material				
		CIII	and place in chemical waste container.				
Cleanup procedu	res		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				
			protection equipment. Do not expose containers to open flame,				
			excessive heat, or direct sunlight. Use local exhaust over processing				
Precautions for sa	afe handling		area. Do not eat, drink or smoke around products.				
			Store in a cool, dry and ventilated area away from sources of heat,				
			moisture and incompatible materials. Observe all warnings and				
Recommendations on the conditions for safe			precautions listed for the product. Keep container closed to prevent				
storage, Storage/	handling incompatibilitie	s.	contamination.				
	Section 8 -	- Expo	sure Controls/Personal Protection				
	le Exposure Limits (PELs	s)	No data available				
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values			Not Applicable				
Other Exposure Limits			No data available				
Engineering Cont			Use mechanical (general) ventilation to control airborne levels below				
Individual Protection Measures			exposure guidelines.Wear protective safety glasses or goggles, gloves, apron, vapor				
			respirator.				
		ysical	and Chemical and Chemical Properties				
Appearance (physical state, color, etc.)			Liquid, Clear, Green				
Upper/lower flammability or explosive limits			Not Explosive				
Odor			Slight to no odor				
Vapor pressure			No data available				
Odor threshold			Not Applicable				
Vapor density (air = 1)			No data available				
рН			9.0-10.7				
Relative density			1.02 - 1.05 @ 60°F				

	20()		000-									
Freezing point (as 5	0%)		-20°F									
Solubility(ies)			Miscible in water									
Initial boiling point a	nd boiling rang	je	No data available									
Flash point			>200°F									
Evaporation rate (B		1)	<1	l. l.								
Flammability (solid,			Not Flamn									
Partition coefficient:		ər	No Data A									
Auto-ignition tempe			No data a									
Decomposition tem	perature; and		No data a									
Viscosity		•	No data a									
				0 – Stability and Reactivity								
			ble under typical use temperatures.									
Chemical Stability				pical use temperatures								
Hazardous Reaction	าร			ng materials and stron	<u> </u>							
Conditions to Avoid				rces and incompatible								
Incompatible Materi				ng agents and strong a								
Decomposition Proc	ducts			dioxide, other compo								
		Section 11		logical Information	on							
Likely Routes of Ex				s / Skin / Ingestion								
		n Short Term E	xposure		om Long Term	Exposure						
Delayed Effects	Irritation of aff			No data available								
Immediate Effects	Irritation of aff			No data available.								
Chronic Effects	Not Applicable			No data available.								
The numerical measured				No data available.								
estimates such as t												
estimated amount [expected to kill	l 50% of									
test animals in a sin		de e estado da	undare (b	Invitation of all in the								
Description of the s				ne Irritation of affected areas.								
symptoms associated with exposure to the chemical including symptoms from the lowest to the most sever												
exposure.												
		Found	to be a									
Listed in the		potenti										
National			ogen in the		Found to be							
Toxicology	Internat			No	a notential							
Program (NTP)	No Agency			No	carcinogen	No						
Report on		Resear	ch on		by OSHA?							
Carcinogens?			(IARC)									
		Monog										
		Section 1	2 – Ecolo	ogical Information								
Ecotoxicity	No Data A	vailable										
Persistence and		vailable										
Degradability	No Data A											
Bioaccumulation	No Data A	vailable										
Mobility in Soil	No Data A	vailable										
Other Adverse	No Data A	vailable										
Effects	No Data A	valiable										
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											
Do not dump into se	ewers, on arour	agencies to determine appropriate disposal options										
			าร		Section 14 – Transport Information							
		disposal option		sport Information								
agencies to determi	ne appropriate	disposal option	14 – Tran	sport Information								
	ne appropriate	disposal option	14 – Tran	•	No							
agencies to determi	ne appropriate	disposal option	14 – Tran	•	No	ad						
agencies to determi	ne appropriate ulated in Non-E	disposal option	14 – Tran	•	No Not Regulate							
agencies to determi Is product DOT regu UN number UN proper shipping	ne appropriate ulated in Non-E name	disposal option	14 – Tran	•	No Not Regulate Not Regulate	ed						
agencies to determi	ne appropriate ulated in Non-E name ass(es)	disposal option	14 – Tran	•	No Not Regulate	ed ed						

Environmental hazards (e.g., i International Maritime Danger		if it is a marine pollutant according to the ods Code (IMDG Code))				Not Regulated		
Guidance on transport in bulk International Code for the Con Chemicals in Bulk (Internation	(according struction a al Bulk Ch	ing to Annex II of MARPOL 73/783 and the n and Equipment of Ships Carrying Dangerous				Not Regulated		
Any special precautions which with, in connection with transp					-	None		
premises								
Section 15 – Re								
Safety RegulationsOSHA Hazard Communication Standard: This product is not a "Hazard Chemical" as defined by the OSHA Hazard CommunicationStandard, 24 1910.1200.								
Health Regulations		ot Available						
Environmental Regulations		ot 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			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	Re	Red/Flammability			1			
TIMIS		Orange/Physical Hazard			0			
		White/Personal Protection			X			
		Health (Blue)			0			
NFPA		Flammability (Red)			1 N/A			
0(no hazard) to 4(severe risk)		Instability/Reactivity (Yellow)			N/A 0			
	Sp	ecial (White)	nto of this produ	•		are exempt		
US Toxic Substance Control A		from TSCA	Inventory require			SCA Inventory or a CFR 720.30	are exempt	
CEPA – Domestic Substances	s List (DSL	/						
		Section 16 –	Other Inforn	nation				
This SDS is applicable for all of faith and believed to be accura given. Regulatory requirement responsibility to ensure that ac	ate as of th is are subj	e effective revisi ect to change an nply with all fede	on date shown. I d may differ betv eral, state, provin	Howeve ween va icial or lo	r, no wa rious loc	rranty, express of ations. It is the bu	implied, is	
-		Product Dil	utions Different	tials		1		
	60%	50%	40%	35	5%	30%	25%	
SAFE-T-THERM [®] PDO BioGreen	N/A	50%		35%				
Performance Additives and Water	N/A	50%		65%				
(15/15 C 60/60 F)	N/A	1.040 - 1.050	1.030		- 1.040			
Freeze Point Max	N/A	-20°F	-20°F		3°F			
Revision Date: 8/7/2017								