Houghton Chemical Corporation

Safety Data Sheet



WINTREX®

Section 1 - Identification									
Manufacturer Address			ughton Chemical Corporation						
			Cambridge Street, Allston, MA 02	2134					
			17-254-1010 or 1-800-777-2466						
Emergency Telep			EMTREC: 1-800-424-9300						
Chemical Name 8	& Synonyms		tifreeze/Inhibited Ethylene Glycol						
Chemical Family			ylene Glycol Mixture						
Recommended U			tifreeze Fluid						
Restrictions on Us	se		ution to 50% is generally recommo		condition.				
Section 2 – Hazard(s) Identification									
		Acute Toxicity, Oral, Category 4							
Hazard Classifica	tion		Skin Corrosion / Irritation, Category 2						
		Specific Target Organ Toxicity (Single Exposure), Category 1							
O'read IVM read		_	ecific Target Organ Toxicity (Repe	eated Exposure), Category	2				
Signal Word			nger	with the control of the control	to the constant and an arrange				
Hozord Ctatans are	4		rmful if swallowed. Causes skin in						
Hazard Statemen	ι	system (CNS) and kidneys if swallowed. May cause damage to kidneys through							
Diotogram Dogarii	ation	prolonged or repeated exposure if swallowed. GHS: Health Hazard, Exclamation Point							
Pictogram Descrip	Juon				ar handling. Do not oot				
		Prevention: Wash hands and any other contaminated skin after handling. Do not eat, drink or smoke when using this product. Wear protective gloves (chemically							
					is (chemically				
			impervious). Do not breathe mist, vapors or spray.						
			Response: If swallowed: Call a poison control center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get						
Precautionary Sta	itement	medical attention. Take off contaminated clothing and wash it before reuse. If							
		exposed: Call a poison control center. Get medical attention if you feel unwell.							
		Storage: Store locked up.							
		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	No	Not Applicable						
classified									
01 111	Section	3 -	- Composition and Informa						
Chemical Name			Common name and synonyms	CAS #	% by weight				
Ethylene Glycol		Monoethylene Glycol		107-21-1	96%				
Water		N/A		7732-18-5	2%				
Inhibitors & Dye			N/A	Proprietary	2%				
			Section 4 – First aid Me						
	1 1 1 1 1 1 1 1		Symptoms of Exposur		9.1				
Acute			area with symptoms of reddening	ı, ıtchıng, swelling, burning	, possible permanent				
		damage, nausea, vomiting, weakness, and death							
Dalaced	Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent								
Delayed	damage, nausea, vomiting, weakness, abdominal pain, muscle tenderness, repiratory failure, severe								
Inhalation	metabolic acidosis, hypocalcemictetany and death								
Inhalation Skin	Vapors and mists cause respiratory irritation and may be harmful if inhaled.								
	Irritation may result. May be harmful if absorbed through skin.								
Eye Contact Ingestion	Irritation may cause transitory stinging and tearing. Toxic: may be harmful or fatal if swallowed.								
First Aid Instructions									
	Domovo to free	h oir			unitation if victim is not				
Inhalation		sh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not k medical attention							
breathing. Seek medical attention.									

	Mach akin with acon a	nd water	r for at least 20 minutes. Demove any conteminated elething. Sock				
Skin			r for at least 20 minutes. Remove any contaminated clothing. Seek if symptoms or irritation develops.				
Eye Contact							
Ingestion	Flush with water for at least 20 minutes. Seek medical attention if irritation develops or persists. DO NOT induce vomiting, seek medical attention immediately. If swallowed give 2 to 3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting ma occur spontaneously. If vomiting occurs and the victim is conscious, give water to victim to further dilute the chemical.						
Other		how safe	ety data sheet to the doctor in attendance.				
			5 – Fire Fighting Measures				
Suitable Extinguishing Material Water, water fog, water spray, alcohol foam, dry chemical or carbon							
		dioxid	е.				
Unsuitable Exting			ta Available				
Hazards from Co		Carbor	e may contain the original material in addition to but not limited to: n Monoxide, Carbon Dioxide.				
Special Protectiv Firefighters	e Equipment for		self-contained breathing apparatus and protective suit. Evacuate and to safe areas and keep upwind of fire.				
·	Section		Accidental Release Measures				
liee of porcenti			Ventilate area of leak or spill. Remove all sources of ignition. Wear				
Use of personal p	precautions		appropriate personal protective equipment.				
Protective equipment to prevent the contamination of skin, eyes, and clothing.			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 ma	terials used for containm	ent	Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.				
Cleanup procedu	ıres		Do not flush to sewer. Comply with all federal, state, and local regulations.				
	S	ection	7 – Handling and Storage				
Precautions for safe handling Recommendations on the conditions for safe			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. 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.				
storage, Storage/handling incompatibilities. contamination. Section 8 – Exposure Controls/Personal Protection							
OSHA Permissib	le Exposure Limits (PELs		Not Applicable				
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values			ACGIH TLV: 100 mg/m4				
Other Exposure Limits			OSHA - Table Z-1 Limits for air contaminants - 1910.1000: 50 ppm 125 mg/m3 .				
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 - Phy	sical a	and Chemical and Chemical Properties				
Appearance (physical state, color, etc.)			Liquid, Clear, Fluorescent Yellow				
Upper/lower flammability or explosive limits			Not Explosive; LOWER: 3.2% (v) UPPER: 15.3% (v)				
Odor			Slight to no odor				
Vapor pressure			134 Pa / 0.1 mmHg				
Odor threshold			No data available				
	r = 1)		2.14				
Vapor density (ai	1 – 1)						
pH Relative density	1 – 1)		9.0 - 10.5 1.120 - 1.135				

Freezing point (as 5	0%)			-34°F / -37°C				
Solubility(ies)			Miscible in	water				
Initial boiling point a	nd boiling rang	je	385°F / 19	6°C				
Flash point			232°F / 11	232°F / 111°C				
Evaporation rate (B	utyl Acetate = 1	1)	<1					
Flammability (solid,		/	This mater	rial is Not Flammable b	ut can burn if he	ated		
Partition coefficient:		er .	Log Pow:					
Auto-ignition tempe		.	> 700°F / >					
Decomposition tem			Not Applic					
Viscosity	perature, and		~16 cps at					
Viscosity		Section						
Section 10 – Stability and Reactivity								
Reactivity				pical use temperatures.				
Chemical Stability				pical use temperatures				
Hazardous Reaction	าร			ng materials strong bas		cids.		
Conditions to Avoid				rces and incompatibles				
Incompatible Materi				ng agents, strong base				
Decomposition Prod	ducts			on monoxide may form		decomposition.		
		Section 1	1 - Toxico	logical Informatio	n			
Likely Routes of Ex	oosure			s / Skin / Ingestion / Inh				
,		Short Term			om Long Term	Exposure		
Delayed Effects	Irritation of aff		1 2 2 2 2 2	Irritation of affected ar				
Immediate Effects	Irritation of aff			Irritation of affected ar				
Chronic Effects	Not Applicable			Teratogenic effects				
The numerical mea			oxicity		>10600 ma/ka	Ingestion: I D50 -		
estimates such as the				Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 - Rats - 7712 mg/kg Lethal Dose Human Adult - 90mL				
estimated amount [rais - 11 12 mg/kg Loi	inai Dosc Hamai	TAddit - John		
test animals in a sin		expedied to h	.111 30 /0 01					
Description of the s		description in	cludes the	Irritation nausea vom	iting abdominal	nain weakness		
symptoms associate				the Irritation, nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions,				
including symptoms								
exposure.	mom the lowes	st to the most	Severe	hypocalcemictetany, metabolic acidosis, death.				
ехрозите.		Found	I to be a	Trypocalcernictetarry, in		S, death.		
Listed in the		potent						
National		•	ogen in the		Found to be			
Toxicology			ational		a potential			
Program (NTP)	No	Agend		No	carcinogen	No		
Report on			rch on		by OSHA?			
Carcinogens?			(IARC)		by ConA:			
Carcinogens			graphs?					
			•					
			12 - ECOIC	ogical Information				
Ecotoxicity	Low Ecoto	xicity						
Persistence and Degradability	Biodegrad	able						
Bioaccumulation	Does not h	Does not bioaccumulate significantly						
Mobility in Soil	Dissolves			soil, it will be highly mob	oile and may con	taminate ground		
	water							
	Other Adverse No Data Available							
Effects			3 _ Dieno	sal Considerations	•			
Do not duma into a	Word on and					o and/or fodoral		
agencies to determi		disposal optic	ons	ter. Contact local sewer	, municipai, stat	e and/or rederal		
Section 14 – Transport Information								
Is product DOT regulated in Non-Bulk packaging? No								
DOT BULK								
UN number			DOTE	JULIN	11113000			
	name			UN3082				
UN proper shipping	Hallie			Environmentally hazardous substances, liquid, n.o.s. 9				
Transport hazard cl						ilquiu, 11.0.5.		

Not Regulated						
Not Regulated						
Reportable Quantity (RQ): 5000 lbs Ethylene Glycol						
Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)						

premises						
Section 15 – Regula	tory Ir	nformation (Not indicated an	ywhere else on this SDS)			
Safety Pegulations 0		HA Hazard Communication Standard: This product is a "Hazardous Chemical" defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.				
Health Regulations		Available	,			
Environmental Regulations	Not A	Available				
SARA 311/312	mate healtl accor	d upon available information, this rial is classified as the following h 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 - Yes; Delayed (Chronic) Health Hazard - Yes; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: Product contains the following substances which are subject to reporting requirements and are listed in 40 CFR 372 - Component: Ethylene Glycol CAS#: 107-21-1 Amount: >=99.0%.			
		Health	2			
HMIS		Flammability	1			
THINIO		ge/Physical Hazard	0			
	White	e/Personal Protection	X			
	Healt	th (Blue)	2			
NFPA	Flam	mability (Red)	1			
0(no hazard) to 4(severe risk)	Insta	bility/Reactivity (Yellow)	N/A			
	Spec	ial (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)	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 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%		
WINTREX®	60%	50%	40%	35%	30%	25%		
Performance Additives and Water	40%	50%	60%	65%	70%	75%		
Specific Gravity (15/15°C 60/60°F)	1.085 - 1.100	1.066 - 1.092	1.055 - 1.070	1.050 - 1.065	1.045 - 1.057	1.035 - 1.050		
Reserve Alkalinity (min)	6	5	4	4	3	3		
Freeze Point Max	-63°F / -53°C	-34°F / -37°C	-10°F / -23°C	-4°F / -18°C	+4°F / -15°C	+10°F / -12°C		
Revision Date: September 22, 2015								