Houghton Chemical Corporation

Safety Data Sheet



WINTREX[®] HDN

Houghton Chemical Corporation Manufacturer Address 52 Cambridge Street, Allston, MA 02134 Emergency Telephone CHEMTREC: 1-800-424-9300 Chemical Ramity Ethylene Glycol Mixture Recommended Use Antifreeze/Inhibited Ethylene Glycol Restrictions on Use Dilution to 50% is generally recommended; dilute to meet local condition. Section 2 - Hazard(s) Identification Acture Toxicity, Oral, Category 4 Kacute Toxicity, Oral, Category 2 Specific Target Organ Toxicity (Repeated Exposure), Category 1 Signal Word Danger Hazard Statement Harmul if swallowed. Causes skin irritation. Caused damage to the central nervous system (ONS) and kidneys if swallowed. May cause damage to kidneys through prolonged or repeated exposure if swallowed. Pictogram Description Health Hazard & Exclamation Point Prevention: Wash hands and any other contaminated skin after handling. Do not eat, drink or smoke when using this product. Wear protective gloves. Do not breathe mist, vapors or spray. Precautionary Statement If syniptical attention if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Precautionary Statement If syniptical attention if you feel unwell. Storage: Store locked up. Disposal Contact local sewer, municipal, state	Section 1 - Identification							
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Inhibitors & Dye N/A Proprietary 2-5%								
	Inhibitors & Dye		N/A	Proprietary	2-5%			

		Sectio	on 4 – First aid Measures					
			Symptoms of Exposure					
Acute	Irritation of affected are		symptoms of reddening, itching, swelling, burning, possible permanent					
Acute	damage, nausea, vom							
Delayed damage, nausea, vomiting			symptoms of reddening, itching, swelling, burning, possible permanent					
			eakness, abdominal pain, muscle tenderness, repiratory failure, severe					
Laborate Cara	metabolic acidosis, hy							
Inhalation			atory irritation and may be harmful if inhaled.					
Skin			armful if absorbed through skin.					
Eye Contact Ingestion	Irritation may cause tra Toxic: may be harmful							
Ingestion	TOXIC. May be harmful	U latai	First Aid Instructions					
	Remove to fresh air A	dministe	er oxygen if breathing is difficult. Give artificial respiration if victim is not					
Inhalation	breathing. Seek medical attention.							
			r for at least 20 minutes. Remove any contaminated clothing. Seek					
Skin			if symptoms or irritation develops.					
Eye Contact) minutes. Seek medical attention if irritation develops or persists.					
			k medical attention immediately. If swallowed give 2 to 3 glasses of					
			d alert. Do not give anything by mouth to an unconscious person. To					
Ingestion		prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may						
		ur spontaneously. If vomiting occurs and the victim is conscious, give water to victim to further						
	lilute the chemical.							
Other			ety data sheet to the doctor in attendance.					
	Se		5 – Fire Fighting Measures					
Suitable Extinguish	ning Material		, water fog, water spray, alcohol-resistant foam, dry chemical, sand, bon dioxide.					
Unsuitable Extingu	ishing Material		ta Available					
			e may contain the original material in addition to but not limited to:					
Hazards from Com	bustion		n Monoxide, Carbon Dioxide.					
Special Protective	Equipment for		self-contained breathing apparatus and protective suit. Evacuate					
Firefighters			nel to safe areas and keep upwind of fire.					
	Section	on 6 –	Accidental Release Measures					
Use of personal pro	ecautions		Ventilate area of leak or spill. Remove all sources of ignition. Wear					
	coudions		appropriate personal protective equipment.					
			Usage of safety glasses or googles is recommended. Chemical					
Protective equipment to prevent the contamination of skin, eyes, and clothing.			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.					
			Collect liquid in an appropriate container or absorb with inert material					
Methods and mate	rials used for containm	ent	and place in chemical waste container.					
			Do not flush to sewer. Comply with all federal, state, and local					
Cleanup procedure	es		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 well ventilated area away from sources of heat,					
	s on the conditions for s		moisture and incompatible materials. Observe all warnings and					
storage, Storage/h	andling incompatibilitie	s.	precautions listed for the product. Keep container closed to prevent					
			contamination.					

	Sect	ion 8 – Expo	sure Cor	ntrols/Personal Protection					
OSHA Permissible			Not Applic						
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values			ACGIH TLV: 100 mg/m5						
Other Exposure Lim	nits		OSHA - T mg/m3 .	OSHA - Table Z-1 Limits for air contaminants - 1910.1000: 50 ppm 125 mg/m3.					
Engineering Contro	I			Use mechanical (general) ventilation to control airborne levels below exposure guidelines.					
Individual Protection	n Measures		Wear protective safety glasses or goggles, gloves, apron, vapor respirator.						
	Section 9) – Physical :		nical and Chemical Properties					
Appearance (physic				ear, Fluorescent Yellow					
Upper/lower flamma				sive; LOWER: 3.2% (v) UPPER: 15.3% (v)					
Odor			Slight to n						
Vapor pressure			135 Pa / 0						
Odor threshold			No data a	0					
Vapor density (air =	- 1)		2.14						
pH	- 1)		9.0 - 10.7						
Relative density			1.170 - 1.	180					
Freezing point (as 5	50%)		-34°F / -3						
Solubility(ies)	50 70)		-34°F / -37°C Miscible in water						
Initial boiling point a	and boiling rand	ne							
Flash point		jc	385°F / 196°C 232°F / 111°C						
Evaporation rate (B	utvl Acetate –	1)	<1						
Flammability (solid,		1)	This material is Not Flammable but can burn if ignited.						
Partition coefficient:		or	No Data Available						
Auto-ignition tempe			> 700°F / > 370°C						
Decomposition tem			Not Applicable						
Viscosity	perature, and		~16 cps at 60°F						
VISCOSILY		Section 1	0 – Stability and Reactivity						
Depetivity									
Reactivity				ole under typical use temperatures. Die under typical use temperatures.					
Chemical Stability									
Hazardous Reaction Conditions to Avoid			with oxidizing materials strong bases and strong acids.						
			gnition sources and incompatibles.						
Incompatible Materi		1	with oxidizing agents, strong bases and strong acids.						
Decomposition Proc	ducis			on monoxide may form when heated to decomposition.					
		Section 11		ological Information					
Likely Routes of Ex				s / Skin / Ingestion / Inhalation					
		n Short Term E	xposure	Effects from Long Term Exposure					
Delayed Effects	Irritation of af			Irritation of affected area					
Immediate Effects	Irritation of affected area			Irritation of affected area					
Chronic Effects	Not Applicabl			Teratogenic effects					
The numerical measures of toxicity (e.g., acute toxicity				Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 -					
estimates such as the LD50 (median lethal dose)) - estimated amount [of a substance] expected to kill				Rats - 7712 mg/kg Lethal Dose Human Adult - 90mL					
-		j expected to kil	I 50% Of						
test animals in a sin		Less de de la la la	1						
Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe				Irritation, nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema,					
exposure.				hypocalcemictetany, metabolic acidosis, death.					

Listed in the National Toxicology Program (NTP) Report on Carcinogens?	No	Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs? ection 12 – Ecolo	No	a c k	Found to be a potential carcinogen by OSHA?	No		
Ecotoxicity	Low Ecotoxicity		9.001	•••				
Persistence and Degradability	Biodegradable	·						
Bioaccumulation	Does not bioacc	cumulate significantly						
Mobility in Soil		ter. If product enters se	oil, it will be highly r	nobile	e and may con	taminate ground		
Other Adverse	No Data Availab							
Effects								
Do not dump into se agencies to determir	wers, on ground or interest of the appropriate dispo	ection 13 – Dispose into any bodies of wate boal options Section 14 – Trans	er. Contact local se	wer, r	municipal, stat	e and/or federal		
			sport mormatic		No			
Is product DOT regu		ackaging? DOT E						
		DOTE	JULK					
UN number UN proper shipping name					UN3082 Environmentally hazardous substances, liquid, n.o.s.			
Transport hazard cla	iss(es)				9			
Packing group numb	ber				111			
Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code)) Not Regulated					d			
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 Reportable Quantity (RQ): 5								
Section	15 – Regulator	y Information (No	t indicated anv	whe	re else on t	his SDS)		
Safety Regulations	Safety RegulationsOSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.							
Health Regulations Environmental Regu		ot Available ot Available						
SARA 311/312	Ba m he ac	ased upon available in aterial is classified as ealth and/or physical h ccording to Section 31	the following azards 1 & 312	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - Ye Delayed (Chronic) Health Hazard - Ye Fire Hazard - No; Reactive Hazard - N 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%.				
HMIS		lue/Health ed/Flammability range/Physical Hazaro /hite/Personal Protecti		2 1 0 x				

			n (Blue)		2	2			
NFPA 0 (no hazard) to 4 (severe risk)		Flammability (Red)				1			
		Instat	ility/Reactivit	y (Yellow)	N/A	N/A			
			al (White)		0	0			
US Toxic Substance Co			All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30						
CEPA – Domestic Subs	OSL)	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.							
		Se		Other Inform					
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.									
Dropartical	60%			utions Different 40%	35%	30%	25%		
Properties ¹ WINTREX [®] HDN	60%		50%	40%	35%	30%	25%		
Performance Additives and Water	40%		50%	60%	65%	70%	75%		
Specific Gravity (15/15°C 60/60°F)	1.117 - 1.12	7 1	.096 - 1.106	1.074 - 1.084	1.063 - 1.073	1.053 - 1.063	1.042 - 1.052		
Reserve Alkalinity (minimum)	14		12	9	8	7	6		
Freeze Point (maximum)	-63°F / -53°(C -	34°F / -37°C	-12°F/-23°C	-3°F / -18°C	+4°F / -15°C	+10°F / -12°C		
¹ Data for the concentrate	is based on vo	lume of	Ethylene Glyc	ol; data for mixtu	res is based on v	olume of WINTREX®	HDN.		
Revision Date: 7/19/2018	2								