Houghton Chemical Corporation

Safety Data Sheet



SECURITY® XL Nitrite & 2EH Free

Section 1 - Identification						
	Houghton Chemical Corporation					
Manufacturer Address	52 Cambridge Street, Allston, MA 02134					
1-617-254-1010 or 1-800-777-2466 Emergancy Telephone CHEMTREC: 1-800-424-9300						
Emergency Telephone	CHEMTREC: 1-800-424-9300					
Chemical Name & Synonyms	Antifreeze/Inhibited Ethylene Glycol					
Chemical Family	Ethylene Glycol Mixture					
Recommended Use	Antifreeze Fluid		1141			
Restrictions on Use	Dilution to 50% is generally recomm		condition.			
	Section 2 – Hazard(s) Ider	itification				
	Acute Toxicity, Oral: Category 4					
Hannel Olasaifiantian	Skin Corrosion / Irritation: Category	72				
Hazard Classification	Reproductive Toxicity: Category 1B	I. F				
	Specific Target Organ Toxicity (Sing		. 4			
Ciaral Mard	Specific Target Organ Toxicity (Rep	eated Exposure): Category	/ 1			
Signal Word	Danger	irritation May damage fort	lity or the unberg shild			
	Harmful If swallowed. Causes skin					
Hazard Statement	Causes damage to central nervous damage to unspecified organs, and					
	through prolonged or repeated expo		ieys ii swallowed,			
Pictogram Description	Health Hazard, Exclamation Point	suie.				
1 ictogram Description	Prevention:					
	Obtain special instructions before us	se. Do not handle until all s	afety precautions have			
	been read and understood. Wash h					
	handling. Do not eat, drink or smok					
	protection and protective gloves & c					
	spray.	9	,,			
	Response:					
	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.					
	If on skin: Wash with soap and plenty of water. Take off contaminated clothing and					
Precautionary Statement	wash it before reuse.					
	If skin irritation occurs: Get medical attention.					
	If exposed or concerned: Get medical advice. Call a poison 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	, ,	onate.				
classified	Not Applicable					
Section 3 – Composition and Information on Ingredients						
Chemical Name	Common name and synonyms	CAS#	% by weight			
Ethylene Glycol	Monoethylene Glycol	107-21-1	80-90%			
Diethylene Glycol	N/A	111-46-6	0-5%			
Potassium p-tert-butylbenzoate	N/A	16518-26-6	3-7%			
Potassium Benzotriazole		51126-65-9	0.1-0.6%			
	Section 4 – First aid Me	asures				
Symptoms of Exposure						
Acute Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent						
damage, nausea, vomiting, weakness, and death						

Dolovod	Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanen						
			eakness, abdominal pain, muscle tenderness, repiratory failure, severe				
Inhalation	metabolic acidosis, hypocalcemictetany and death Vapors and mists cause respiratory irritation and may be harmful if inhaled.						
Skin		Irritation may result. May be harmful if absorbed through skin.					
Eye Contact	Irritation may cause tra						
Ingestion	Toxic: may be harmful						
g.c			First Aid Instructions				
Inhalation	Remove to fresh air. And breathing. Seek medicate	dministe	er oxygen if breathing is difficult. Give artificial respiration if victim is not				
Skin	Wash skin with soap ar	nd wate	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 may occur spontaneously. If vomiting occurs and the victim is conscious, give water to victim to further dilute the chemical.						
Other		now safe	ety data sheet to the doctor in attendance.				
			5 – Fire Fighting Measures				
			water fog, water spray, alcohol-resistant foam, dry chemical, sand,				
Suitable Extinguis		or carl	bon dioxide.				
Unsuitable Exting	uisning iviateriai		ta Available				
Hazards from Con	nbustion		e may contain the original material in addition to but not limited to: n Monoxide, Carbon Dioxide.				
Special Protective	Equipment for		self-contained breathing apparatus and protective suit. Evacuate				
Firefighters	0 1'		nel to safe areas and keep upwind of fire.				
	Section	on 6 –	Accidental Release Measures				
Use of personal p	recautions		Ventilate area of leak or spill. Remove all sources of ignition. Wear				
			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 materials used for containment			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.				
	Se	ection	7 – Handling and Storage				
Precautions for safe handling			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.				
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.			Store in a cool, dry and 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.				
Section 8 – Exposure Controls/Personal Protection							
	e Exposure Limits (PELs		Not Applicable				
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values		imit	ACGIH TLV: 100 mg/m3				
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 Protestian Managemen			Wear protective safety glasses or goggles, gloves, apron, full body					
Individual Protection Measures			suit, vapor	respirator.		•		
				nical and Chemica	I Properties			
Appearance (physical state, color, etc.)			Liquid, Clear, Yellow					
Upper/lower flammability or explosive limits				sive; LOWER: 3.2% (v)	UPPER: 15.3%	(v)		
Odor			Slight to no					
Vapor pressure			134 Pa / 0					
Odor threshold			No data av	/ailable				
Vapor density (air =	1)		2.14					
рН			7.5 - 9.0					
Relative density			1.1137 - 1.1337					
Freezing point (as 50	0%)		-34°F / -37°C					
Solubility(ies)			Miscible in					
Initial boiling point ar	nd boiling range		385°F / 19					
Flash point			232°F / 11	1°C				
Evaporation rate (Bu	•		<1					
Flammability (solid, g				ial is Not Flammable bu	ut can burn if he	ated		
Partition coefficient:			No Data A					
Auto-ignition temper			> 700°F / >					
Decomposition temp	erature; and		Not Applica					
Viscosity			~16 cps at					
		Section 1	0 - Stabil	ity and Reactivity				
Reactivity	F	Product is stab	ole under typ	pical use temperatures.				
Chemical Stability	F	Product is stab	ole under typ	pical use temperatures.				
Hazardous Reaction	s A	Avoid contact	with oxidizir	ng materials strong bas	ses and strong a	cids.		
Conditions to Avoid			gnition sources and incompatibles.					
Incompatible Materia	als A	Avoid contact	with oxidizing agents, strong bases and strong acids.					
Decomposition Prod	ucts C	Carbon dioxide	e and carbo	n monoxide may form v	when heated to	decomposition.		
				logical Information				
Likely Routes of Exp				s / Skin / Ingestion / Inh				
Í	Effects from S	Short Term Ex			m Long Term I	Exposure		
Delayed Effects	Irritation of affect			Irritation of affected are				
Immediate Effects	Irritation of affect	ted area		Irritation of affected area				
Chronic Effects	Not Applicable			Teratogenic effects				
The numerical meas		e.g., acute tox	cicity	Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 -				
estimates such as the LD50 (median lethal dose)) - tl				Rats - 7712 mg/kg Lethal Dose Human Adult - 90mL				
estimated amount [o				5 5				
test animals in a sing								
Description of the symptoms. This description includes the				Irritation, nausea, vomiting, abdominal pain, weakness,				
symptoms associated with exposure to the chemical				muscle tenderness, respiratory failure, convulsions,				
including symptoms	from the lowest	to the most se	evere	cardiovascular collaps				
exposure.				hypocalcemictetany, m	netabolic acidosi	s, death.		
		Found t						
Listed in the		potentia						
National			gen in the		Found to be			
Toxicology	No	Internat		No	a potential	No		
Program (NTP)	-	Agency			carcinogen			
Report on		Researc			by OSHA?			
Carcinogens?		Cancer						
Monographs?								
Section 12 – Ecological Information								
Ecotoxicity	Low Ecotoxic	city						
Persistence and	1	Biodegradable						
	Biodegradab							
Degradability								
	Does not bio	accumulate s						
Degradability	Does not bio	accumulate s		oil, it will be highly mob	ile and may con	taminate ground		

Other Adverse	No Data Available						
Effects	Section 13 – Disposal Considerations						
Do not dump into sewe	rs on ground or i	nto any bodies of water. Contact local s	sewer n	nunicinal state and/or federal			
agencies to determine			SCWCI, I	numerpai, state and/or rederai			
3		ection 14 – Transport Informat	tion				
Is product DOT regulat				No			
		DOT BULK					
UN number				UN3082			
UN proper shipping na	me			Environmentally hazardous			
				substances, liquid, n.o.s.			
Transport hazard class				9			
Packing group number		is a marine pollutant according to the		III			
International Maritime I	Dangerous Goods			Not Regulated			
		to Annex II of MARPOL 73/783 and the nd Equipment of Ships Carrying Dange		Not Domilated			
		emical Code (IBC Code))	erous	Not Regulated			
Any special precaution with, in connection with	s which an employ	yee should be aware of or needs to cor eyance either within or outside their	mply	Reportable Quantity (RQ): 5628 lbs (Ethylene Glycol)			
premises							
Section 1		Information (Not indicated an					
Safety Regulations		SHA Hazard Communication Standard: defined by the OSHA Hazard Commun					
Health Regulations		t Available	Ilication	Standard, 29 CFK 1910.1200.			
Environmental Regulat		t Available					
	110	r r wallable	Supe	rfund Amendments and			
SARA 311/312 ma		Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312 Re(SA Imm De) Fire Such No following health and/or physical hazards according to Section 311 & 312		authorization Act of 1986 Title III ARA) Sections 311 and 312: mediate (Acute) Health Hazard - Yes; layed (Chronic) Health Hazard - Yes; e Hazard - No; Reactive Hazard - No; dden Release of Pressure Hazard Section 313: Product contains the owing substances which are subject reporting requirements and are listed 40 CFR 372 - Component: Ethylene ycol CAS#: 107-21-1 Amount: 99.0%.			
		ue/Health	2				
HMIS		ed/Flammability ange/Physical Hazard	0	-			
		hite/Personal Protection	X				
		ealth (Blue)	2				
NFPA		Flammability (Red) 1					
0 (no hazard) to 4 (severe risk)		stability/Reactivity (Yellow)	N/A	<u> </u>			
		pecial (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		WARNING: This product can expose you to chemicals including Ethylene glycol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov					
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%	
SECURITY® XL Nitrite &		44%					
2EH Free							
Performance Additives		56%					
and Water		3070					
Specific Gravity		1.060 - 1.090					
(15/15°C 60/60°F)							
Reserve Alkalinity		6					
(minimum)							
Freeze Point		-34°F / -37°C					
(maximum)							

¹Data for the concentrate is based on volume of Ethylene Glycol; data for mixtures is based on volume of SECURITY® XL Nitrite & 2EH Free.

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