Houghton Chemical Corporation

Safety Data Sheet



SECURITY® V

		Section 1 - Identifica	tion				
Manufacturer Address		Houghton Chemical Corporation					
		52 Cambridge Street, Allston, MA 02134					
	1-617-254-1010 or 1-800-777-2466						
Emergency Telephone	CHEMTREC: 1-800-424-9300						
Chemical Name & Synonyms	Antifreeze/Inhibited Ethylene Glycol						
Chemical Family		Ethylene Glycol Mixture					
Recommended Use	Antifreeze Fluid						
Restrictions on Use Dilution to 50% is generally recommended: dilute to meet local condition.							
		Section 2 – Hazard(s) Ider					
		HA: Acute Toxicity, Oral, Catego					
		n Corrosion / Irritation, Category					
		rious Eye Damage / Eye Irritation	, Category 2A		ļ		
Hazard Classification		nsitization – Skin, Category 1					
		kic to Reproduction, Category 2					
		ecific Target Organ Toxicity (Sing					
		ecific Target Organ Toxicity (Rep	eated Exposure), C	Category 2	2		
Signal Word		NGER					
		rmful if swallowed. Causes skin i		,	,		
Hazard Statement		use an allergic skin reaction. Sus					
		used damage to the central nervo					
B		use damage to kidneys through p		ed exposi	ire if swallowed.		
Pictogram Description		S: Health Hazard, Exclamation P					
		evention: Obtain special instruction			,		
		cautions have been read and und					
		ntaminated skin after handling. D					
		ear eye protection (splash goggles					
		protective clothing (chemically impervious). Do not breathe mist or spray.					
		Contaminated work clothing must not be allowed out of the workplace.					
		sponse: If swallowed: Call a poi					
Precautionary Statement		skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical					
•		attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse					
		eyes cautiously with water for several minutes. Remove contact lenses, if present and					
		easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If					
		exposed or concerned: Get medical advice. 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	reg	· · ·					
classified	No	t Applicable					
	n 3 -	- Composition and Inform	ation on Ingred	lients			
Chemical Name		Common name and synonyms	CAS#		% by weight		
Ethylene Glycol		Monoethylene Glycol	107-21-1		95%		
Water		N/A	7732-18-5		2.5%		
Inhibitors & Dye		N/A	Proprietary		3%		
		Section 4 – First aid Me	asures				
		Symptoms of Exposu					
Acute		<u> </u>					
	Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent						
		omiting, weakness, abdominal pa					
		hypocalcemictetany and death		, ,	•		
Page 1 of 5							

Inhalation	Vanore and mists caus	e resnir	atory irritation and may be harmful if inhaled			
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.					
ingestion	TOXIC. May be naminu		First Aid Instructions			
	Pomovo to fresh air A		er oxygen if breathing is difficult. Give artificial respiration if victim is not			
Inhalation	breathing. Seek medic					
Clain			r for at least 20 minutes. Remove any contaminated clothing. Seek			
Skin	medical attention imm	ediately	if symptoms or irritation develops.			
			minutes. Seek medical attention if irritation develops or persists.			
			k medical attention immediately. If swallowed give 2 to 3 glasses of			
water if victim is conscious an			d alert. Do not give anything by mouth to an unconscious person. To			
Ingestion			d product, lay victim on side with head lower than waist. Vomiting may			
		f vomitir	ng occurs and the victim is conscious, give water to victim to further			
Oil	dilute the chemical.	. ,				
Other			ety data sheet to the doctor in attendance.			
			5 – Fire Fighting Measures			
Suitable Extingu	uishing Material		, water fog, water spray, alcohol foam, dry chemical or carbon			
		dioxid				
	nguishing Material		ta Available			
Hazards from C	ombustion		e may contain the original material in addition to but not limited to: n Monoxide, Carbon Dioxide.			
	ve 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	precautions		Ventilate area of leak or spill. Remove all sources of ignition. Wear			
Out of personal	predations		appropriate personal protective equipment.			
			Usage of safety glasses or googles is recommended. Chemical			
			resistant gloves, chemical resistant apron, boots, and full suit will be			
	oment to prevent the		necessary depending on the extent of clean up task. If ventilation does			
contamination o	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 ma	aterials used for containm	ent	Collect liquid in an appropriate container or absorb with inert material			
			and place in chemical waste container. Do not flush to sewer. Comply with all federal, state, and local			
Cleanup proced	lures		regulations.			
	S	ection	7 – Handling and Storage			
	J	CCLIOII	Protect container from physical damage. Wear appropriate personal			
			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.			
1 1000001010	Sale Harlaning		Store in a cool, dry and ventilated area away from sources of heat,			
			moisture and incompatible materials. Observe all warnings and			
Recommendation	ons on the conditions for s	afe	precautions listed for the product. Keep container closed to prevent			
storage, Storage/handling incompatibilities.			contamination.			
orenege, ereneg			sure Controls/Personal Protection			
OSHA Permissi	ble Exposure Limits (PEL		Not Applicable			
American Conference of Governmental			''			
Industrial Hygienists (ACGIH) Threshold Limit Values			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 Protection Measures			Wear protective safety glasses or goggles, gloves, apron, vapor respirator.			

	Section 9) – Ph	vsical	and Cher	nical and Chemic	al Properties		
Appearance (physical state, color, etc.)			and Chemical and Chemical Properties Liquid, Clear, Violet					
Upper/lower flammability or explosive limits			Not Explosive; LOWER: 3.2% (v) UPPER: 15.3% (v)					
Odor			Slight to no odor					
			134 Pa / 0.1 mmHg					
Vapor pressure			No data available					
Odor threshold			2.14					
Vapor density (air = 1)								
pH				7.5 - 11.0				
Relative density			1.120 - 1.1					
Freezing point (as 50%)			-34°F / -37					
Solubility(ies)			Miscible in					
Initial boiling point and boiling range			385°F / 19					
Flash point				232°F / 11	1°C			
Evaporation rate (Bu		1)		<1				
Flammability (solid,					rial is Not Flammable	but can burn if he	ated	
Partition coefficient:		er		Log Pow:				
Auto-ignition temper				> 700°F / :				
Decomposition temp	erature; and			Not Applic				
Viscosity				~16 cps at				
		Se	ection 1	0 - Stabi	lity and Reactivit	:y		
Reactivity					pical use temperature			
Chemical Stability					pical use temperature			
Hazardous Reaction	S						cids.	
Conditions to Avoid	<u>- </u>			with oxidizing materials strong bases and strong acids. gnition sources and incompatibles.				
Incompatible Materia	als				ng agents, strong bas		ds.	
Decomposition Prod		Carbo	on dioxide	e and carbo	n monoxide may form	n when heated to	decomposition	
Decemposition 1 rea	4010				logical Informati		accomposition:	
Likely Doutes of Eye		360	tion in					
Likely Routes of Exp		. Ch and	. Тоино Г		s / Skin / Ingestion / Ir			
Dalawad Effacts	Effects from			xposure	e Effects from Long Term Exposure Irritation of affected area			
Delayed Effects	irritation of att	ritation of affected area						
Immediate Effects	Irritation of aff	ected a			Irritation of affected			
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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 agencies to determine appropriate disposal options Section 14 - Transport Information Is product DOT regulated in Non-Bulk packaging? No **DOT BULK UN** number UN3082 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. Transport hazard class(es) Ш Packing group number Environmental hazards (e.g., identify if it is a marine pollutant according to the Not Regulated International Maritime Dangerous Goods Code (IMDG Code)) 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 Not Regulated Chemicals in Bulk (International Bulk Chemical Code (IBC Code)) Any special precautions which an employee should be aware of or needs to comply Reportable Quantity (RQ): 5000 with, in connection with transport or conveyance either within or outside their lbs Ethylene Glycol premises Section 15 – Regulatory Information (Not indicated anywhere else on this SDS) OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" Safety Regulations as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Health Regulations Not Available Not Available **Environmental Regulations** Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - Yes: Delayed (Chronic) Health Hazard - Yes; Based upon available information, this Fire Hazard - No: Reactive Hazard - No: material is classified as the following Sudden Release of Pressure Hazard -SARA 311/312 health and/or physical hazards No. Section 313: Product contains the according to Section 311 & 312 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%. Blue/Health 2 Red/Flammability 1 **HMIS** Orange/Physical Hazard 0 White/Personal Protection Х Health (Blue) 2 Flammability (Red) **NFPA** 1 0(no hazard) to 4(severe risk) Instability/Reactivity (Yellow) N/A Special (White) 0 All components of this product are on the TSCA Inventory or are exempt US Toxic Substance Control Act from TSCA Inventory requirements under 40 CFR 720.30 All substances contained in this product are listed on the Canadian Domestic CEPA - Domestic Substances List (DSL) 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® V		48%					

HCC ID: 611380-H01-150904

Performance Additives and Water	52%				
Specific Gravity (15/15 ⁰ C 60/60 ⁰ F)	1.060 - 1.090				
Reserve Alkalinity (min)	3				
Freeze Point Max	-34°F / -37°C				
Revision Date: September 4, 2015					