Houghton Chemical Corporation

Safety Data Sheet



SECURITY® Extended Life Antifreeze

Section 1 - Identification						
Houghton Chemical Corporation						
Manufacturer Address	52 Cambridge Street, Allston, MA 02134					
	1-617-254-1010 or 1-800-777-2466 CHEMTREC: 1-800-424-9300					
Emergency Telephone						
Chemical Name & Synonyms	Antifreeze/Inhibited Ethylene Glycol					
Chemical Family	Ethylene Glycol Mixture					
Recommended Use	Antifreeze Fluid					
Restrictions on Use	Dilution to 50% is generally recomm		condition.			
	Section 2 – Hazard(s) Ider	ntification				
	Acute Toxicity, Oral: Category 4					
	Skin Corrosion / Irritation: Category	/ 2				
Hazard Classification	Toxic to Reproduction: Category 2					
	Specific Target Organ Toxicity (Sing					
	Specific Target Organ Toxicity (Rep	ealed Exposure). Calegory	/ 2			
Signal Word	Danger					
- g	Harmful If Swallowed. Causes skin	irritation. Suspected of dar	naging fertility of the			
Hazard Statement	unborn child . Causes damage to c	entral nervous system and l	kidneys if swallowed.			
	May cause damage to kidneys throu	ugh prolonged or repeated e	exposure if swallowed.			
Pictogram Description	Health Hazard & Exclamation Point					
	Prevention:					
	Obtain special instructions before us	se. Do not handle until all s	afety precautions have			
	been read and understood. Wash h					
	not eat, drink or smoke when using					
	goggles, full face shield), protective		ng (chemically			
	impervious). Do not breathe fumes,	, vapors, mist, or spray.				
	Response:					
	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.					
5	If on skin: Wash with plenty of water.					
Precautionary Statement	If skin irritation occurs: Get medical attention. Take off contaminated clothing and					
	wash it before reuse.					
	If exposed or concerned: Call a poison center. 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 classified	Not Applicable					
Section	3 - Composition and Inform	ation on Ingredients				
Chemical Name	Common name and synonyms	CAS#	% by weight			
Ethylene Glycol	Monoethylene Glycol	107-21-1	92%			
Diethylene Glycol		111-46-6	0-5%			
Water	N/A	7732-18-5	4%			
Inhibitors & Dye	N/A	Proprietary	4%			
	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						

	Irritation of affacted are	o with a	symptoms of raddening itahing awalling burning passible parmanent				
Delayed			symptoms of reddening, itching, swelling, burning, possible permanent eakness, abdominal pain, muscle tenderness, repiratory failure, severe				
metabolic acidosis, hypocalcer							
Inhalation	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 transitory stinging and tearing.						
Ingestion	Toxic: may be harmful						
, and the second			First Aid Instructions				
Inhalation	Remove to fresh air. Administer gyvgen if breathing is difficult. Give artificial respiration if victim is not						
Skin	Wash skin with soap and water for at least 20 minutes. Remove any contaminated clothing. Seek medical attention immediately if symptoms or irritation develops.						
Eye Contact			minutes. Seek medical attention if irritation develops or persists.				
Ingestion	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						
Other	Consult a physician. Sl	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	shing Material		bon dioxide.				
Unsuitable Exting	uishing Material		ta Available				
Hazards from Cor	mbustion		e may contain the original material in addition to but not limited to: n Monoxide, Carbon Dioxide.				
Special Protective Firefighters	e Equipment for		self-contained breathing apparatus and protective suit. Evacuate anel to safe areas and keep upwind of fire.				
	Section		Accidental Release Measures				
llas ef a sussanal a			Ventilate area of leak or spill. Remove all sources of ignition. Wear				
Use of personal p	recautions		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 procedu	res		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							
OSHA Permissible 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 Protection Measures			Wear protective safety glasses or goggles, gloves, apron, vapor					
			respirator. and Chemical and Chemical Properties					
Annearance (physic			Liquid, Cle		roperties			
Appearance (physical state, color, etc.) Upper/lower flammability or explosive limits				sive; LOWER: 3.2% (v)	I IDDER: 15 3%	(v)		
Odor		Slight to no		UFFER. 13.3/6	(v)			
		134 Pa / 0.						
Vapor pressure Odor threshold			No data av					
		2.14	allable					
Vapor density (air = 1)								
pH Polotive density		7.5 - 9.0						
Relative density Freezing point (as 50%)		1.120 - 1.140 -34°F / -37°C						
Solubility(ies)	076)		Miscible in					
	nd hailing range		385°F / 19					
Initial boiling point a	nd bolling range		232°F / 11					
Evaporation rate (Bu	utul Apototo — 1\		<1	1 0				
Flammability (solid,				ial is Not Flammable by	ıt oon burn if bo	ata d		
Partition coefficient:				ial is Not Flammable bu	at can built it he	aicu		
			Log Pow: -					
Auto-ignition temper Decomposition temp			Not Applica					
	berature, and		~16 cps at					
Viscosity		Cootion 4						
D (1.1)				ity and Reactivity				
Reactivity				pical use temperatures.				
Chemical Stability				oical use temperatures.				
Hazardous Reaction				ng materials strong bas	es and strong a	cids.		
Conditions to Avoid			ignition sources and incompatibles.					
Incompatible Materia				with oxidizing agents, strong bases and strong acids. e and carbon monoxide may form when heated to decomposition.				
Decomposition Prod						decomposition.		
		ection 11		logical Information				
Likely Routes of Exp				s / Skin / Ingestion / Inh				
	Effects from Sh		xposure		m Long Term I	Exposure		
,	Irritation of affects			Irritation of affected are				
Immediate Effects		ed area		Irritation of affected area				
	Not Applicable			Teratogenic effects				
The numerical measures of toxicity (e.g., acute tox				Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 -				
estimates such as th	,	, ,		Rats - 7712 mg/kg; Lethal Dose Human Adult - 90mL				
estimated amount [c		pected to kill	1 50% 01					
test animals in a single Description of the sy		arintian incl	udos the	Irritation naugos vom	iting abdominal	noin wooknoon		
symptoms associate				Irritation, nausea, vomiting, abdominal pain, weakness muscle tenderness, respiratory failure, convulsions,				
including symptoms				•	e, pulmonary edema,			
exposure.	nom the lowest te	THE HIGH S	CVCIC	hypocalcemictetany, m				
		Found	to be a	, podalodiniototary, n		,		
Listed in the		potentia						
National			gen in the		Found to be			
Toxicology	N	Internat		N.s.	a potential	NI-		
Program (NTP)	No	Agency		No	carcinogen	No		
Report on		Resear			by OSHA?			
Carcinogens?		Cancer (IARC)			-			
Monographs?								
Section 12 – Ecological Information								
Ecotoxicity	Low Ecotoxici	ty						
Persistence and	Riodogradable							
Degradability	Biodegradable							
Bioaccumulation	U J							
Mobility in Soil Dissolves in water. If product enters soil, it will be highly mobile and may contaminate ground water					taminate ground			
	i Walei							

Other Adverse Effects	No Data Available					
Ellecis	Secti	on 13 – Disposal Considerat	tions			
Do not dump into sew		any bodies of water. Contact local s		nunicipal, state and/or federal		
agencies to determine	appropriate disposal	options				
	Sec	<u>tion 14 – Transport Informat</u>	ion			
Is product DOT regula	ted in Non-Bulk pack			No		
		DOT BULK				
UN number				UN3082		
UN proper shipping na	ame			Environmentally hazardous		
Transport hazard alaa	2(22)			substances, liquid, n.o.s.		
Transport hazard class Packing group numbe	, ,			9		
		a marine pollutant according to the				
International Maritime				Not Regulated		
		Annex II of MARPOL 73/783 and th	е			
		Equipment of Ships Carrying Dange	erous	Not Regulated		
Chemicals in Bulk (Inter-						
Any special precautior with, in connection with premises	. ,	Reportable Quantity (RQ): 5000 lbs Ethylene Glycol				
	5 – Regulatory Ir	nformation (Not indicated an	vwher	e else on this SDS)		
	OSH	A Hazard Communication Standard:	This pro	oduct is a "Hazardous Chemical"		
Safety Regulations		fined by the OSHA Hazard Commu				
Health Regulations		vailable				
Environmental Regula	tions Not A	vailable	_			
SARA 311/312 mate heal		upon available information, this al is classified as the following and/or physical hazards ling to Section 311 & 312 Delayed (Chronic) Health Haz Fire Hazard - No; Reactive Ha Sudden Release of Pressure In No. Section 313: Product cont following substances which are to reporting requirements and in 40 CFR 372 - Component: Englycol CAS#: 107-21-1 Amour >=99.0%.		chorization Act of 1986 Title III A) Sections 311 and 312: diate (Acute) Health Hazard - Yes; ed (Chronic) Health Hazard - Yes; lazard - No; Reactive Hazard - No; en Release of Pressure Hazard - ection 313: Product contains the ing substances which are subject orting requirements and are listed CFR 372 - Component: Ethylene I CAS#: 107-21-1 Amount:		
		Health	2			
HMIS		Flammability	1			
		ge/Physical Hazard e/Personal Protection	0 x			
		h (Blue)	2			
NFPA		mability (Red)	1			
0 (no hazard) to 4 (severe risk)		pility/Reactivity (Yellow)	N/A	•		
	,	Special (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® Extended Life Antifreeze	~55%	46%					
Performance Additives and Water	~45%	54%					
Specific Gravity (15/15°C 60/60°F)	1.08 - 1.11	1.06 - 1.10					
Reserve Alkalinity (minimum)	3.4	1					
Freeze Point (maximum)	-55°F / -48°C	-34°F / -37°C					

¹Data for the concentrate is based on volume of Ethylene Glycol; data for mixtures is based on volume of SECURITY® Extended Life Antifreeze.

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