## **Houghton Chemical Corporation**

Safety Data Sheet



## SECURITY® -100

Section 1 - Identification							
Manufacturer Address		Houghton Chemical Corporation					
		52 Cambridge Street, Allston, MA 02134					
Emarganay Talan	hana		17-254-1010 or 1-800-777-2466				
Emergency Telep		CHEMTREC: 1-800-424-9300					
Chemical Name 8 Chemical Family	Synonyms	Antifreeze/Inhibited Propylene Glycol					
Recommended U			pylene Glycol Mixture ifreeze Fluid				
Restrictions on Us			ite to meet local condition.				
Restrictions on os	5E		Section 2 – Hazard(s) Iden	tification			
Hazard Classification Not Applicable							
Signal Word	шот		: Applicable				
Hazard Statement S		Wh Sta	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product.				
Pictogram Descrip	otion		Applicable				
Precautionary Statement  Any other Hazard not otherwise		vapor. Avoid release to the environment.  Do not leave container open. Do not store in unlabeled containers. Do not eat, drink or smoke when using this product.  Wear eye protection & protective gloves.  Store tightly closed in a cool, dry, well-ventilated place.  Loosen bung cautiously to relieve any pressure. Never use pressure to empty.  IF SWALLOWED: Do NOT induce vomiting. Get medical attention if you feel unwell.  IF IN EYES: Flush eyes with plenty of water for at least 15 minutes.  IF eye irritation persists: get medical attention.  IF ON SKIN: Take off contaminated clothing. Wash with soap and plenty of water.  Wash contaminated clothing before reuse.  FOR LEAKS AND SPILLS: Eliminate all ignition sources. Stop leak if present and safe to do so. Contain spill. Collect spillage & absorb with inert material. Store collected material inapproved containers for proper disposal or recovery.  IN CASE OF FIRE: Use water, water spray, water fog, alcohol-resistant foam, dry chemical, sand or carbon dioxide to extinguish.product. Wear protective gloves, eye and face equipment. Store in a cool, dry and well-ventilated location. Avoid release to the environment.					
classified	Soction		Applicable  Composition and Informa	tion on Ingradi	ionte		
Chemical Name	Section		Composition and imornia	CAS#	iento	% by weight	
Propylene Glycol			1,2 - Propanediol	57-55-6		58%	
Water			N/A	7732-18-5		40%	
Inhibitors & Dye			N/A	Proprietary		2%	
Tillibilois & Dye			TW/A	ι τυρπειαι γ		<i>L</i> /U	
			Section 4 – First aid Mea	asures			
Symptoms of Exposure							
Acute	Irritation of affected area						
Delayed	Irritation						
Inhalation		/apors and mists expected to be slightly irritating to upper respiratory tract.					
Skin	Irritation may result						
Eye Contact	Irritation may cause transitory stinging and tearing.						
Ingestion	Very low toxicity if ingested. Ingestion of larger amounts may cause gastrointestinal upset and possible temporary central nervous system depression.						

			First Aid Instructions			
Inhalation	Remove to fresh air. If		ms persist, seek medical attention.			
Skin	Wash skin with soap and water. Remove any contaminated clothing. Seek medical attention if irritations develops or persists.					
Eye Contact		Flush with water for at least 20 minutes. Seek medical attention if irritations develops or persists.				
Ingestion	DO NOT induce vomiting, seek medical attention.					
Other	Not Applicable	•				
	Se	ection	5 – Fire Fighting Measures			
Suitable Extingu	Suitable Extinguishing Material  Water, water fog, water spray, alcohol-resistant foam, dry chemical, san or carbon dioxide.					
Unsuitable Extin	guishing Material		a Available			
Hazards from Combustion Smok			te may contain the original material in addition to but not limited to: on Monoxide, Carbon Dioxide.			
Special Protective Firefighters	ve Equipment for	Wears	self-contained breathing apparatus and protective suit. Evacuate annual to safe areas and keep upwind of fire.			
1 irongritoro	Section		Accidental Release Measures			
		JII U	Ventilate area of leak or spill. Remove all sources of ignition. Wear			
Use of personal	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	aterials used for containm	ent	Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.			
Cleanup proced	ures		Do not flush to sewer. Comply with all federal, state, and local regulations.			
	S	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.  Store in a cool, dry and well ventilated area away from sources of heat,			
Recommendations on the conditions for safe storage, Storage/handling incompatibilities.			moisture and incompatible materials. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination.			
	Section 8 -	- Expo	sure Controls/Personal Protection			
	ole Exposure Limits (PEL	s)	Not Applicable			
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values			Not Applicable			
Other Exposure	Limits		AIHA WEEL is 10 mg/m3 for total vapor and aerosol.			
Engineering Cor	ntrol		Use mechanical (general) ventilation to control airborne levels below exposure guidelines.			
Individual Protec	ction Measures		Wear protective safety glasses or goggles, gloves, apron, vapor respirator.			
Section 9 – Physical and Chemical Properties						
Appearance (physical state, color, etc.)  Liquid, Clear, Pink						
	nmability or explosive limi	ts	Not Explosive; LOWER: 2.6% (v) UPPER: 12.5% (v)			
Odor			Slight to no odor			
Vapor pressure			133 Pa / 0.1 mmHg			
Odor threshold			Not Applicable			
Vapor density (air = 1)			2.10			
pH Polativa density			9.0 - 10.5			
Relative density			1.050 - 1.059 -50°F / -46°C			
Freezing point (a Solubility(ies)	as JU /0)		Miscible in water			
Solubility(les)   Wilsciple III Water						

Initial boiling point a	nd boiling rang	je		311°F / 155°C					
Flash point			225°F / 10	225°F / 107°C					
Evaporation rate (Bi	utyl Acetate = 1	1)	<1	<1					
Flammability (solid,	gas)		Not Flamr	Not Flammable					
Partition coefficient:	n-octanol/wate	er	No Data A	No Data Available					
Auto-ignition temperature			> 700°F /	> 700°F / > 370°C					
Decomposition temperature; and			Not Applic						
Viscosity	,		~75 cps a						
Section 10 – Stability and Reactivity									
Reactivity				ble under typical use temperatures.					
Chemical Stability				ble under typical use temperatures.  ble under typical use temperatures.					
Hazardous Reaction	ne			with oxidizing materials and strong acids.					
Conditions to Avoid	15								
Incompatible Materi	ale		Heat, flames, ignition sources and incompatibles.						
Decomposition Prod		Carbo	Avoid contact with oxidizing agents and strong acids.  Carbon dioxide and carbon monoxide may form when heated to decomposition.						
'				her organic acids may					
Libratio District CE		Sect		logical Information					
Likely Routes of Exp		. 01		s / Skin / Ingestion / In		F			
D.1			Term Exposure		rom Long Term	Exposure			
Delayed Effects	Irritation of aff			Irritation of affected a					
Immediate Effects	Irritation of aff		area	Irritation of affected a					
Chronic Effects	Not Applicable	е		Lactic acidosis, stupe following chronic inge		ave been reported			
The numerical meas	sures of toxicity	y (e.g.,	acute toxicity	Skin: The LD50 for s	kin absorption in r	rabbits is >10,000			
estimates such as the	he LD50 (medi	an letha	al dose)) - the	mg/kg Ingestion: Th	ne oral LD 50 for r	ats is 20,000 mg/kg			
estimated amount [d	of a substance]	expect	ted to kill 50% of						
test animals in a sin	gle dose.								
Description of the sy	ymptoms. This	descrip	otion includes the	Irritation of affected a	areas. Lactic acido	osis, stupor and			
symptoms associate	ed with exposu	re to th	e chemical	seizures.					
including symptoms	from the lower	st to the	e most severe						
exposure.									
Listed in the			Found to be a potential						
National			carcinogen in the		Found to be				
Toxicology			International	No	a potential carcinogen				
Program (NTP)	No		Agency for			No			
Report on			Research on		by OSHA?				
Carcinogens?			Cancer (IARC)		by CollA:				
Odi ciliogens:			Monographs?						
		Se		ogical Information	1				
Ecotoxicity	Low Ecoto		CHOIL IZ — ECON	ogical illiorillation					
Persistence and									
Degradability	Biodegrad	able							
Bioaccumulation	Does not h	Does not bioaccumulate significantly							
				soil, it will be highly mo	hile and may con	taminate around			
Mobility in Soil	water	III Wale	i. Il product enters s	on, it will be riighly fric	blie and may con	taminate ground			
	Other Adverse No Data Available								
Effects	1.10 Data A								
				sal Consideratior					
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?									
DOT BULK									
LIN number	_								
	UN proper shipping name				Not Regulated				
					Not Regulated				
Transport hazard class(es)					Not Regulate				
Packing group number					Not Regulate	eu			

Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))	Not Regulated
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	Not Regulated

Section 15 – Regulatory Information (Not indicated anywhere else on this SDS)						
Safety Regulations	OSHA Hazard Communication Standard: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.					
Health Regulations	Not Available					
Environmental Regulations	Not A	Not Available				
SARA 311/312	mate healt accor	d upon available information, this rial is classified as the following n 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 - No; Delayed (Chronic) Health Hazard - No; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.			
		Health	0			
HMIS		Flammability	1			
		ge/Physical Hazard	0			
		e/Personal Protection	X			
		h (Blue)	0			
NFPA		mability (Red)	1			
0 (no hazard) to 4 (severe risk)		oility/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 (I	DSL)	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.				
Continue 4C Other Information						

## **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						
Percent Volume of SECURITY® -100	Freeze	Burst	Parts of SECURITY® -100	Parts of		
reicent volume of SECONTI 1 * - 100	Protection	Protection		Water		
100%	-50°F	-100°F	Undiluted	-		
75%	-12°F	-70°F	3	1		
60%	+3°F	-60°F	3	2		
50%	+10°F	-20°F	1	1		
Revision Date: 6/28/2019						