Houghton Chemical Corporation

Safety Data Sheet



Pah | nol® GOLD Automotive Antifreeze

Section 1 - Identification							
		Houghton Chemical Corporation					
Manufacturer Address		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		vylene Glycol Mixture					
Recommended Use		tifreeze Fluid	· · · · · · · · · · · · · · · · · · ·				
Restrictions on Use		ution to 50% is generally recomm		condition.			
		Section 2 – Hazard(s) Iden	tification				
		Acute Toxicity, Oral: Category 4					
		Skin Corrosion / Irritation: Category 2					
Hazard Classification		xic to Reproduction: Category 2					
		ecific Target Organ Toxicity (Sing		0			
Signal Word		ecific Target Organ Toxicity (Repe	eated Exposure): Category	2			
Signal Word		nger rmful If Swallowed. Causes skin	irritation Supported of dam	oging fortility or the			
Hazard Statement		born child . Causes damage to ce					
		y cause damage to kidneys throu					
Pictogram Description		alth Hazard & Exclamation Point	gri proloriged or repeated e	xposure il swalloweu.			
		evention:					
		tain special instructions before us	e Do not bandle until all sa	efety precautions have			
		en read and understood. Wash h					
		t eat, drink or smoke when using t					
	goggles, full face shield), protective gloves and protective clothing (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.						
		If on skin: Wash with soap and 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						
re		reconditioner or as otherwise appropriate.					
Any other Hazard not otherwise classified	No	t Applicable					
Section 3 – Composition and Information on Ingredients							
Chemical Name		Common name and synonyms	CAS #	% by weight			
Ethylene Glycol		Monoethylene Glycol	107-21-1	91.6%			
Inhibitors & Dye		N/A	Proprietary	8.4%			
N/A		N/A	N/A	N/A			
Section 4 – First aid Measures							
Symptoms of Exposure							
Irritation of affected area with symptoms of reddening itching swelling burning possible permanent							
Acute damage, nausea, vomiting, weakness, and death							

	Irritation of offected ar	o with a	wrantomo of roddoning, itabing, awalling, burning, possible parmanent				
Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent Delayed damage, nausea, vomiting, weakness, abdominal pain, muscle tenderness, repiratory failure, severe							
Delayed	metabolic acidosis, hy						
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	or fatal	if swallowed.				
			First Aid Instructions				
Inhalation	Inhalation Remove to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not						
	breathing. Seek medic						
Skin	immediately if symptor		y of water. Remove any contaminated clothing. Seek medical attention				
Eye Contact			minutes. Seek medical attention if irritation develops or persists.				
Lye Contact			A medical attention immediately. Do not give anything by mouth to an				
1 <i>C</i>			nt aspiration of swallowed product, lay victim on side with head lower				
Ingestion			r spontaneously. If vomiting occurs and the victim is conscious, give				
	water to victim to furthe						
Other	Consult a physician. S	how safe	ety data sheet to the doctor in attendance.				
	Se	ction !	5 – Fire Fighting Measures				
Suitable Extinguis	bing Motorial	Water	fog, water spray, alcohol-resistant foam, dry chemical, sand, or				
Suitable Extinguis	shing material	carbor	n dioxide.				
Unsuitable Exting	uishing Material	water of	if material is water soluble, may not be practical to extinguish fire by dilution.				
Hazards from Cor	mbustion		e may contain the original material in addition to but not limited to:				
			n Monoxide, Carbon Dioxide.				
Special Protective	e Equipment for		self-contained breathing apparatus and protective suit. Evacuate				
Firefighters	Onath		nel to safe areas and keep upwind of fire.				
	Section	on 6 –	Accidental Release Measures				
			Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment.				
			Usage of safety glasses or googles is recommended. Chemical				
			resistant gloves, chemical resistant apron, boots, and full suit will be				
Protective equipm	nent to prevent the		necessary depending on the extent of clean up task. If ventilation does				
	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.				
		4	Collect liquid in an appropriate container or absorb with inert material				
Methods and mat	erials used for containm	ent	and place in chemical waste container. Report spills or leaks to the				
			proper regulatory authorities. Do not flush to sewer. Comply with all federal, state, and local				
Cleanup procedui	res		regulations.				
	S	ection	7 – Handling and Storage				
			Protect container from physical damage. Wear appropriate personal				
	.		protection equipment. Do not expose containers to open flame,				
Precautions for sa	afe handling		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/	handling incompatibilities	S.	precautions listed for the product. Keep container closed to preven				
		_	contamination.				
Section 8 – Exposure Controls/Personal Protection							
	e Exposure Limits (PELs	5)	Not Applicable				
	ence of Governmental	imit					
Industrial Hygienists (ACGIH) Threshold Limit Values			ACGIH TLV: 100 mg/m3				
			OSHA - Table Z-1 Limits for air contaminants - 1910.1000: 50 ppm 125				
Other Exposure L	imits		mg/m3.				
			General room ventialtion plus local exhaust at points of emission to				
Engineering Cont	IOI		maintain levels of airborne contaminants below exposure limits.				
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Individual Protection Measures			Wear prot	Wear protective safety glasses or goggles, gloves, apron, vapor				
			I	respirator.				
				nical and Chemica	I Properties			
Appearance (physical state, color, etc.)			Liquid, Cle			()		
Upper/lower flammability or explosive limits				sive; LOWER: 3.2% (v)	UPPER: 15.3%	(V)		
Odor			Slight to n					
Vapor pressure			134 Pa / 0	ě				
Odor threshold	4)		No data a	Vallable				
Vapor density (air =	1)		2.14					
pH Relative density				107@60°E				
Freezing point (as 5	00/)			1.097 - 1.127@68°F -34°F / -37°C				
Solubility(ies)	0 /8)		Miscible ir					
Initial boiling point a	nd hoiling rang	0	385°F / 19					
Flash point	iu boliling rang	C	232°F/111					
Evaporation rate (Bu	ityl Acetate – 1)	<1	0				
Flammability (solid,)		rial is Not Flammable b	ut can hurn if he	ated		
Partition coefficient:		۶r	Log Pow:					
Auto-ignition temper			> 700°F /					
Decomposition temp			Not Applic					
Viscosity	indiana, and		~16 cps a					
		Sec		lity and Reactivity				
Reactivity				pical use temperatures				
Chemical Stability				litions of use and storage				
Hazardous Reaction	s					cids		
Conditions to Avoid				with oxidizing materials strong bases and strong acids.				
Incompatible Materia	als			with oxidizing agents, strong bases and strong acids.				
Decomposition Prod				e and carbon monoxide may form when heated to decomposition.				
				logical Informatio				
Likely Routes of Exp	osure	0000		s / Skin / Ingestion / Inh				
		Short 1	Ferm Exposure		om Long Term	Exposure		
Delayed Effects	Irritation of aff			Irritation of affected area				
	Irritation of aff			Irritation of affected area				
	Not Applicable			Teratogenic effects				
The numerical meas			cute toxicity	Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 -				
estimates such as th				Rats - 7712 mg/kg; Lethal Dose Human Adult - 90mL.				
estimated amount [o	f a substance]	expecte	ed to kill 50% of					
test animals in a sing		-						
Description of the sy								
symptoms associate				muscle tenderness, respiratory failure, convulsions,				
including symptoms	from the lowes	st to the	most severe	cardiovascular collapse, pulmonary edema,				
exposure.				hypocalcemictetany, metabolic acidosis, death.				
Listed in the			Found to be a					
Listed in the			otential					
National			arcinogen in the nternational		Found to be a potential carcinogen			
Toxicology Program (NTP)	Not listed.		Agency for			Not listed.		
Report on			Research on		by OSHA?			
Carcinogens?			Cancer (IARC)					
		Anographs?						
Section 12 – Ecological Information								
Ecotoxicity	Low Ecoto			giva mornation				
Persistence and								
Degradability	Biodegrada	able						
Bioaccumulation	Does not h	Does not bioaccumulate significantly						
				oil, it will be highly mot	oile and may con	taminate ground		
Mobility in Soil	water			,		9.0010		

Other Adverse Effects	No Data Available							
	Secti	on 13 – Disposal Considerat	ions					
Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal								
agencies to determine			, , ,					
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	e(es)		9					
Packing group number								
		a marine pollutant according to the	Not Regulated					
International Maritime			-					
		Annex II of MARPOL 73/783 and the						
Chemicals in Bulk (Inte		Equipment of Ships Carrying Dange	rous Not Regulated					
		should be aware of or needs to con	vla					
		ance either within or outside their	Reportable Qu	antity (RQ): 5000				
premises			Ibs Ethylene G	lycol				
	5 – Regulatory Ir	formation (Not indicated an	where else on th	is SDS)				
		A Hazard Communication Standard:						
Safety Regulations		fined by the OSHA Hazard Commun						
Health Regulations		vailable	,					
Environmental Regulat	ions Not A	vailable						
SARA 311/312	mater health	d upon available information, this rial is classified as the following n and/or physical hazards ding to Section 311 & 312	(SARA) Sections 311 Immediate (Acute) He Delayed (Chronic) He Fire Hazard - No; Re Sudden Release of P No. Section 313: Pro- following substances to reporting requirem in 40 CFR 372 - Com	authorization Act of 1986 Title III RA) Sections 311 and 312: nediate (Acute) Health Hazard - Yes; ayed (Chronic) Health Hazard - Yes; Hazard - No; Reactive Hazard - No; dden Release of Pressure Hazard - Section 313: Product contains the owing substances which are subject eporting requirements and are listed 0 CFR 372 - Component: Ethylene col CAS#: 107-21-1 Amount: 99.0%.				
		Health	1					
HMIS		Flammability	1					
-		ge/Physical Hazard	0					
		Personal Protection	X 1					
NFPA		h (Blue) nability (Red)	1					
NFPA 0 (no hazard) to 4 (severe risk)		bility/Reactivity (Yellow)	N/A					
	<i>'</i>	al (White)	0					
<u> </u>			Components of this product listed in the February 2019 TSCA Inventory					
US Toxic Substance C	ontrol Act	update are designated as ACTIVE or are exempt from Inventory						
		requirements under 40 CFR 720.30						
		WARNING: This product can expo	se you to chemicals inc					
CA Proposition 65		glycol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to						
CEPA – Domestic Sub	stances List (DSL)	www.P65Warnings.ca.gov 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%		
Pah nol [®] GOLD		50%						
Automotive Antifreeze		50%						
Performance Additives		50%						
and Water		50%						
Specific Gravity		1.055-1.085						
(15/15°C 60/60°F)		1.055-1.085						
Reserve Alkalinity		1						
(minimum)		T						
Freeze Point		-34°F / -37°C						
(maximum)		-34 F / -37 C						
¹ Data for the concentrate is based on volume of Ethylene Glycol; data for mixtures is based on volume of Pah nol® GOLD								
Automotive Antifreeze.								
Revision Date: 9/1/2020								