Houghton Chemical Corporation

Safety Data Sheet



Windshield Washer Concentrate

Section 1 - Identification				
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	Windshield Washer Antifreeze			
Chemical Family	Methanol Solution			
Recommended Use	Windshield Cleaning/Antifreeze fluid			
Restrictions on Use	Allow defroster to warm windshield before use in cold weather			
	Section 2 – Hazard(s) Identification			
	Acute Toxicity, Oral: Category 3			
Hazard Classification	Acute Toxicity, Dermal: Category 3			
Hazard Classification	Acute Toxicity, Inhalation: Category 3			
	Specific Target Organ Toxicity – Single Exposure: Category 1 Flammable Liquids: Category 2			
Signal Word	Danger			
	Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to			
	eyes, skin, respiratory system, central nervous system, and gastrointestinal tract;			
Hazard Statement	Exposure routes include ingestion, inhalation, and skin contact. Highly flammable			
	liquid and vapor.			
Pictogram Description	GHS: Flame, Skull & Crossbones, Health Hazard			
Precautionary Statement	 Wash hands and other contacted skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe fumes, vapors, mist or sprays. Use only outdoors or in a well-ventilated area. Keep away from heat, sparks & open flames.—No Smoking. Keep container tightly closed. Ground & Bond container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear eye protection and protective gloves. Response: If swallowed: Immediately call a poison center or doctor. Specific treatment: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. If the victim is conscious, alert, and able to swallow, give 2-4 glasses of water or milk to drink. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with soap and plenty of water under shower. Call a poison center or doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed: Call a poison center or doctor. In case of fire: Use alcohol-resistant foam, dry chemical, sand, or carbon dioxide to extinguish. Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. 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 			
Any other Hazard not otherwise	reconditioner or as otherwise appropriate.			
classified	Not Applicable			

	Section 3 – C	compo	sition and Informa	ation on Ingred	ients	
Chemical Name			name and synonyms	CAS #	% by weight	
Methanol		lethyl Ale		67-56-1	93%	
Water		/A		7732-18-5	6%	
Additives & dye	N	/A		Proprietary	1%	
		Sectio	n 4 – First aid Me			
		S	ymptoms of Exposu	re		
Acute	Irritation of affected are	ea, dizzi	ness, visual impairmer	nt, respiratory failure	e	
Delayed	liver, irritation of affect	ed area,	cyanosis of extremitie	s, nausea, acidosis	ge to the heart, damage to the , headache, dizziness,	
Inhalation	collapse, unconsciousness, vomiting, and death due to respiratory failure. Repeated exposure to high vapor concentration may cause nausea, dizziness, visual impairment, irritant to mucous membranes, muscular incoordination, narcosis, and respiratory failure					
Skin	Irritation may occur an					
Eye Contact	Irritation may cause tra					
Ingestion	Poisonous: Harmful or	fatal if s	wallowed. Dizziness, i	nausea, vomiting, u	nconsciousness, and death	
ingeotion	may occur.					
	Demous to face 1 at A		First Aid Instructions			
Inhalation	breathing. Seek medic	al attent	ion.		icial respiration if victim is not	
Skin	ciotning. Seek medical attention immediately if symptoms of irritation persists.					
Eye Contact						
	Immediately call a poison center. Rinse mouth but DO NOT induce vomiting, seek medical attention					
Ingestion	immediately. Do not give anything by mouth to an unconscious person. To prevent aspiration of					
5	swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneous					
Other	If vomiting occurs and the victim is conscious, give water to victim to further dilute the chemical. Consult a physician. Show safety data sheet to the doctor in attendance.					
Other			5 – Fire Fighting N			
Suitable Extinguis					r carbon dioxide	
Unsuitable Exting			ol-resistant foam, dry chemical, sand or carbon dioxide. Jet, Water Stream.			
Hazards from Cor			/	on smoke Carbon	Dioxide, Carbon Monoxide.	
Special Protective						
Firefighters			self-contained breathing apparatus and protective suit. Evacuate nel to safe areas and keep upwind of fire.			
	Section		Accidental Releas			
		<u> </u>	•		Il sources of ignition. Wear	
Use of personal p	recautions		appropriate personal			
Protective equipment to prevent the contamination of skin, eyes, and clothing.			Use of safety glasses or goggles 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			Wear suitable personal protective equipment. Approach release from upwind. Contain and collect spillage in an appropriate container or absorb with non-comustible inert material and place in spark proof chemical waste container. Dispose according to local regulations.			
Cleanup procedu	res				ederal, state, and local	
	S	ection	7 – Handling and	Storage		
Precautions for sa			Protect container from protection equipment excessive heat, or di Ground and bond co	n physical damage t. Do not expose co rect sunlight. Use e ntainers when trans l exhaust over proc	. Wear appropriate personal ntainers to open flame, xplosion proof equipment. sferring material. Use spark- essing area. Do not eat, drink	

Recommendations of storage, Storage/ha			moisture a warnings closed an	cool, dry and ventilated area away from sources of heat, and incompatible materials(oxidizing materials). Observe all and precautions listed for the product. Keep container tightly d sealed to prevent contamination. Keep upright to prevent Keep containers ground and bond.	
				ntrols/Personal Protection	
OSHA Permissible E			Not Applic		
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values			GIH TLV: 200ppm (262 mg/m3) TWA		
Other Exposure Limits		OSHA: Table Z-1 Limits for Air Contaminants - 1910.1000: 200ppm (260 mg/m3)			
Engineering Control		Use mechanical explosion-proof ventilation to control airborne levels below exposure guidelines. Eye washes and showers for emergency use.			
Individual Protection Measures		Wear protective safety glasses or goggles, gloves, apron, vapor respirator.			
	Section 9	– Physical		nical and Chemical Properties	
Appearance (physic			Liquid, Blu		
Upper/lower flamma	ability or explos	ive limits		(260 mg/m3) TWA	
Odor			Alcohol or		
Vapor pressure				a/ 97.7 mmHg	
Odor threshold			No data a	vailable	
Vapor density			1.11		
рН			Not Applic		
Relative density			0.790-0.840		
Freezing point (as 5	0%)		-165°F/-73.88°C		
Solubility(ies)			Miscible in water		
Initial boiling point a	nd boiling rang	е	148.5°F/64.7°C		
Flash point			51.8°F/ 11 °C (Closed Cap)		
Evaporation rate			4.6 Flammable		
Flammability (solid,	0 /				
Partition coefficient:		÷ľ	Log Pow: -0.77		
Auto-ignition temper Decomposition temp			851.0 °F/ 455.0 °C		
Viscosity	Jeralure, and		Not Applicable 0.59 cP 68 °C		
VISCOSILY		Section 1			
Depetivity				lity and Reactivity	
Reactivity				rpical use temperatures.	
Chemical Stability			ble under normal temperature and pressures.		
peroxides.		with oxidizing materials, strong bases, alkali metals, ammonia and			
		ames, sparks and other sources of ignition. Minimize contact with dinhalation of material or combustion by-products. Keep out of water			
			sewers. Do not store at elevated temperatures.		
		with oxidizing materials, strong bases, alkali metals, ammonia and			
Decomposition Prod	lucts	Carbon dioxid	e and carbon monoxide may form when heated to decomposition.		
		Section 11		blogical Information	
Likely Routes of Exp				s / Skin / Ingestion / Inhalation	
		Short Term E	xposure	Effects from Long Term Exposure	
Delayed Effects	Irritation of aff			Irritation of affected area	
	Irritation of aff			Irritation of affected area	
	Irritation of aff			cause headaches and eye irritation	
The numerical measures of toxicity (e.g., acute toxi estimates such as the LD50 (median lethal dose)) - estimated amount [of a substance] expected to kill test animals in a single dose.			- the	Ingestion: Oral LD50 - Human - 143mg/kg, Dermal - Rabbit - 17,100 mg/kg, Inhalatio- Rat - 6 h - 87.6 mg/l, Lethal Dose Human Adult is 1mg/kg of body weight.	

Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.			Central nervous system depression, narcosis, visual impairment, damage to the kidney, damage to the liver, irritation of affected area, cyanosis of extremities, nausea, acidosis, headache, dizziness, collapse, unconsciousness, vomiting, and death due to respiratory failure.					
Listed in the National Toxicology Program (N Report on Carcinogens		Not listed.	Found to be a pote carcinogen in the Ir Agency for Researd Cancer (IARC) Mor	ntial nternational Not ch on listed. nographs		Found to be a potential carcinogen by OSHA	Not listed.	
			ection 12 – Ecole	ogical Info	rmation			
Ecotoxicity	Low E	cotoxicity						
Persistence and Degradability		Readily biodegradable						
Bioaccumulation	Not expected, does not bioaccumulate significantly							
Mobility in Soil						e ground		
Other Adverse Effects No Data Available								
			ction 13 – Dispo					
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								
		S	ection 14 – Tran	sport Infor	mation			
Is product DOT regulat	ed in No	on-Bulk pa	ckaging?			Yes		
			DOT	BULK				
UN number						UN1230		
UN proper shipping na	me					Methanol Solution		
Transport hazard class						3 (6.1)		
Packing group number								
Environmental hazards	s (e.g., io				the	No		
International Maritime I								
Guidance on transport International Code for t Chemicals in Bulk (Inte	he Con	struction a	nd Equipment of Shi	ps Carrying D		s Yes		
Any special precaution					o comply			
with, in connection with						Reportable Quantity	(RQ): 5000	
premises	-							
Section 1	5 – Re	gulatory	Information (No	ot indicate	d anywl	here else on this SI	DS)	
Safety Regulations		as Fla To	defined by the OSH ammable liquid, Targ oxic by skin absorptio	A Hazard Cor et Organ Effe	nmunicat	s product is a "Hazardous ion Standard, 29 CFR 19 by inhalation, Toxic by ir	910.1200.	
Health Regulations	-		ot Available					
Environmental Regulat	ions	No	ot Available		· · -		•	
SARA 311/312		ma he ac	aterial is classified as alth and/or physical l cording to Section 3 ⁻	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312 (40 CFR 370 Subparts B and C): Immediate (Acute) Health Hazard- Yes; Chronic Health- Yes; Fire Hazard - Yes; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: Product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established.			6 Title III 312 (40 CFR mediate s; Chronic Yes; den Release section 313: ny chemical AS numbers	
			ue/Health		2			
HMIS			Red/Flammability			3		
			ange/Physical Hazar			0		
1		W	hite/Personal Protect	tion	Х			

	Health (Blue)	1
NFPA	Flammability (Red)	3
0(no hazard) to 4(severe risk)	Instability/Reactivity (Yellow)	N/A
	Special (White)	0
	Section 16 – Other Infor	mation
faith and believed to be accura given. Regulatory requirement	te as of the effective revision date shown.	oduct. The information herein is provided in good However, no warranty, express or implied, is ween various locations. It is the buyer's/ user's ncial or local law.
	Product Dilutions Differen	tials
Properties	Product Dilutions Differen 72%	atials 37%
PropertiesWindshield WasherConcentrate		
Windshield Washer	72%	37%
Windshield Washer Concentrate Performance Additives	72% 72%	37% 37%