Houghton Chemical Corporation





SECURITY® System Cleaner

	Section 1 - Identific	ation			
Manufacturer Address	Houghton Chemical Corporation				
	52 Cambridge Street, Allston, MA 02134				
Emergency Tolonhone	1-617-254-1010 or 1-800-777-246 CHEMTREC: 1-800-424-9300	6			
Emergency Telephone Chemical Name & Synonyms	Organic Acid Mixture				
Chemical Family	Multi-use Iron Removal Treatment				
Recommended Use	Heat Transfer System Cleansing				
Restrictions on Use	Consult with Houghton Chemical re	anracantativa for usa re	acommendations		
Restrictions on ose	Section 2 – Hazard(s) Ide		commendations.		
	Skin Corrosion: Category 1B	Jitilication			
Hazard Classification	Eye Damage: Category 1				
	Sensitization – Skin: Category 1				
	Specific Target Organ Toxicity (Re	eneated Exposure). Car	tegory 2		
Signal Word	Danger	podiod Expoodio). Od	togoty 2		
Olginal Trons	Causes severe skin burns and eye	damage. Causes seri	ous eve damage. May		
Hazard Statement	cause an allergic skin reaction. Ma				
	repeated exposure.	.,,	3		
Pictogram Description	Corrosion, Health Hazard, Exclama	ation Point			
-	Prevention:				
	Do not breathe dust, fume, gas, mist, vapors or spray. Wash hands and other				
	contacted skin thoroughly after har	ndling. Wear eye prote	ction (splash goggles, full		
	face shield), protective gloves and				
	Contaminated work clothing must	not be allowed out of th	e workplace.		
	Response:				
	If swallowed: Rinse mouth. Do NOT induce vomiting.				
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with				
	plenty of water under shower. Wash contaminated clothing before reuse.				
	If skin irritation or rash occurs: Ge		ash contaminated clothing		
Precautionary Statement	before reuse. Get medical attention if you feel unwell.				
	If inhaled: Remove person to fresh		able for breathing.		
	Immediately call a poison center of		Dames a sentent language if		
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if				
	present and easy to do. Continue rinsing. Immediately call a poison center or a doctor.				
	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		opriator			
classified	Not Applicable				
Section	3 - Composition and Inform	nation on Ingredie	ents		
Chemical Name	Common name and synonyms		% by weight		
2-Hydroxy -1,2,3,-	N/A	77-92-9	15-40%		
Propanetricarboxylic Acid					
Hydroxyacetic Acid	N/A	79-14-1	0-10%		
Hydroxyphosphonoacetic Acid	N/A	23783-26-8	0-10%		

		Section	n 4 – First aid Measures			
			Symptoms of Exposure			
Δ	Irritation of affected are		symptoms of reddening, itching, burning, possible permanent damage,			
Acute	nausea, vomiting		5/ 5/ 5/1 1			
Delayed			symptoms of reddening, itching, swelling, burning, possible permanent eakness, abdominal pain, muscle tenderness, repiratory failure.			
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 tra	nsitory	stinging and tearing.			
Ingestion	May be harmful if swal					
			First Aid Instructions			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, consult a doct and administer oxygen. Consult a doctor if breathing difficulties persist.					
Skin	least 15 minutes. Con	sult a do	ated clothes and shoes. Wash skin with soap and plenty of water for at octor if any irritation persists.			
Eye Contact	Flush eyes with plenty and continue flushing	of water	r for 15 minutes. If the patient is wearing contact lenses, remove them h water. Get medical attention.			
			ver give anything by mouth to an unconscious person. Rinse mouth with			
Ingestion	product, lay victim on soccurs and the victim is	ide with	give 2 glasses of water to drink. To prevent aspiration of swallowed head lower than waist. Vomiting may occur spontaneously. If vomiting lous, give water to victim to further dilute the chemical. Get medical			
Other	attention. Consult a physician S	how safe	ety data sheet to the doctor in attendance.			
0 11 101			5 – Fire Fighting Measures			
Suitable Extinguis			fog, water spray, alcohol foam, dry chemical or carbon dioxide.			
Unsuitable Exting			known other than material that can splatter 100°C/212°F			
Hazards from Cor		Smoke	may contain the original material in addition to but not limited to: Monoxide.			
Special Protective Firefighters	Equipment for	Wears	self-contained breathing apparatus and protective suit. Evacuate nnel to safe areas and keep upwind of fire.			
T irongritoro	Section		Accidental Release Measures			
		J. 1. U	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.			Use of safety glasses or googles is recommended. Face protection (such as a full face shield), chemical resistant gloves, chemical resistant apron, boots, and full suit may 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		ent	Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.			
Cleanup procedui	res		Do not flush to sewer. Comply with all federal, state, and local regulations.			
	S	ection	7 – Handling and Storage			
Precautions for safe handling Recommendations on the conditions for safe storage, Storage/handling incompatibilities.		afe	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, moisture and incompatible materials like strong acids, bases, oxidizers, flammables. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination.			
			sure Controls/Personal Protection			
	e Exposure Limits (PELs	s)	N/A			
	ence of Governmental sts (ACGIH) Threshold L	imit	N/A			

Flash point Evaporation rate (Buty		>200°F <1					
Evaporation rate (Buty		<1					
Flammability (solid, ga		Non Flam					
Partition coefficient: n-		Not Appli					
Auto-ignition temperat		Data not					
Decomposition tempe	erature; and	Not Appli					
Viscosity		Data not					
			ility and Reactivit				
Reactivity			ole under typical use temperatures.				
Chemical Stability			nditions of use and storage.				
Hazardous Reactions			with oxidizing materials, strong bases, strong acids and any other type				
0 100		active material.					
Conditions to Avoid			perature, flames, ignition sources and incompatibles.				
Incompatible Materials			with oxidizing agents, strong bases and strong acids. le and carbon monoxide may form when heated to decomposition.				
Decomposition Produc					decomposition.		
			ological Informati				
Likely Routes of Expo			es / Skin / Ingestion / Ir				
	Effects from Shor			rom Long Term	Exposure		
,	rritation of affected		Irritation of affected area				
	rritation of affected	area	Irritation of affected area				
	Not Applicable.	nauta terrieli	Not Applicable.	A C # 77 00 0 D	4 2000 == = ///- 240 //		
The numerical measu	, , , , , , , , , , , , , , , , , , ,	,	Ingestion: LD50 - CAS# 77-92-2 - Rat - 3000mg/Kg, CA				
	estimates such as the LD50 (median lethal dose)) estimated amount [of a substance] expected to kil		79-14-1 - Rat - 4,240mg/L, CAS# 23783-26-8 - Rat -				
test animals in a single		NOU IO KIII DU% UI	2754mg/Kg.				
		ntion includes the	Irritation of affected	area with sympton	ns of reddening		
Description of the symptoms. This description inclusymptoms associated with exposure to the chemic			Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent damage,				
	including symptoms from the lowest to the most se		nausea, vomiting, weakness, abdominal pain, musc				
exposure.	ioni ino iowest to th	5 11100t 30 VOIG	tenderness, repirator		iai pairi, musule		
21,000,01		Found to be a					
		potential					
National				Found to be			
Toxicology	NI AP A	International		a potential	N AB A B		
Not listed		Agency for	Not listed.	carcinogen	Not listed.		
Report on				by OSHA?			
		Cancer (IARC)		, Jona 1			
Carcinogens?		Monographs?					
Carcinogens?			1	1	1		
Carcinogens?			!! !!	-			
Carcinogens?		ection 12 - Ecol	ogical Informatio				

Persistence and	The component(a) of this product are not subject to regid his degradation
Degradability	The component(s) of this product are not subject to rapid biodegradation.
Bioaccumulation	No Data Available
Mobility in Soil	No Data Available
Other Adverse	No Data Available
Effects	NO Data Available
	Section 13 – Disposal Considerations
Do not dump into sev	wers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal
agencies to determin	ne appropriate disposal options
	Section 14 - Transport Information

Section 14 – Transport Information				
Is product DOT regulated in Non-Bulk packaging?	No			
DOT BULK				
UN number	Not Regulated			
UN proper shipping name	Non Regulated Material			
Transport hazard class(es)	Not Regulated			
Packing group number	Not Regulated			
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	None			

p. 0000		
Section 15 – Regul	atory Information (Not indicated ar	nywhere else on this SDS)
Safety Regulations		: This product is an Irritant and is therefore ined by the OSHA Hazard Communication
Health Regulations	Not Available	
Environmental Regulations	Not Available	
SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according 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.
	Blue/Health	11
HMIS	Red/Flammability	0
TIWIO	Orange/Physical Hazard	0
	White/Personal Protection	C
	Health (Blue)	. ,
NFPA	Flammability (Red)	0
0(no hazard) to 4(severe risk)	Instability/Reactivity (Yellow)	0
	Special (White)	0
US Toxic Substance Control Act	All components of this product are	e on the TSCA Inventory or are exempt

US Toxic Substance Control Act from TSCA Inventory requirements under 40 CFR 720.30

CEPA – Domestic Substances List (DSL) No data available

Section 16 – Other Information

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.

HCC ID: 510177-H01-151210

Product Dilutions Differentials					
60%	50%	40%	35%	30%	25%
	0%				
	0%				
	Approx. 32°F/0°C				
	60%	60% 50% 0% 0% Approx.	60% 50% 40% 0% 0% Approx.	60% 50% 40% 35% 0% 0% Approx.	60% 50% 40% 35% 30% 0% 0% Approx.