HAZTE	CCH Mater	ial Safety Data S	Sheet	Page 1 of 4
SYSTER INC	<u> </u>	HMIS Health Hazard Fire Hazard Reactivity	2 0 0	PPE (See Section 15)
Section 1. Cher	nical Product and Company	Identification		
Trade Name	Fluoride Test	Pa	ırt #	RE2035
Manufacturer	HazTech Systems, Inc. PO Box 929 Mariposa, CA 95338	R	AS # TECS SCA	13520-92-8 / 72-48-0 / 7-56-1 ZH7700000 / CB6580000 / PC1400000 TSCA 8(b) inventory: Zirconyl chloride
Commercial Name Synonyms		C	I #	Alizarin Methyl alcohol
Chemcal Family				emergency contact CHEMTREC at 800-424-9300
Chemical Formula Supplier	Spectrum Chemical Mfg. Corp. 310-5		HazTech Systems, Inc. 800-543-5487 Spectrum Chemical Mfg. Corp. 310-516-8000	

Section 2. Composition and Information on Ingredients

Exposure Limits						
Name		CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Zirconyl chloride Alizarin		13520-92-8 72-48-0	5		10	<1% <1%
Methyl alcohol		67-56-1	260	325		<1%
ToxicologicalZirconyl chloride:ORAL (LD50):Acute:2950 mg/kg (Rat).Data on1227 mg/kg (Mouse).IngredientsAlizarin:ORAL (LD50):Acute:316 mg/kg (Bird).				hol: 50): Acute: 5628 mg/k (LD50): Acute: 15800 i		

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death. Eye contact can result in corneal damage.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Classified POSSIBLE for human. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. The substance is toxic to the nervous system, gastrointestinal tract, eyes. The substance may be toxic to blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, skin, central nervous system (CNS), pancreas. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire and Explosion Data

X	
Flammability	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not applicable.

Section 6. Accidental Release Measures

Small Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage				
	Precautions Keep away from sources of accidental ignition. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.			
Storage	Keep in HazCat Kit.			
Section 8. Exposure Controls/Personal Protection				
Engineering Con	ntrols Use in a well ventilated area.			
Personal Protecti	on Gloves and goggles.			

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Section 9. Physical and Chemical Properties					
Physical State and Appearance	Liquid	Volatility	Not available.		
Molecular Weight	Not available	Odor Threshold	Not available		
pH (1% Solution in Water)	Not available	Water/Oil Dist. Coeff.	Not available.		
Boiling Point	Not available	Ionicity (in Water)	Not available		
Melting Point	Not available	Dispersion Properties	Not available		
Critical Temperature	Not available	Solubility	Easily soluble in water.		
Specific Gravity	Not available	Odor	Not available		
Vapor Pressure	Not available	available Taste Not available.			
Vapor Density	Not available	Color	Purple.		
Section 10. Stability and Reactivity Data					
Stability	Product is stable.	Corrosivity	Non-corrosive in presence of glass.		
Instability Temperature	Not available.	Special Reman on Corrosivity	ks Not available.		
Conditions of Instability	Not available.				
Incompatability with Various Substances	Not available	Polymerization	n Will not polymerize.		
Special Remarks on Reactivity	Not available				

Section 11. Toxicological Information	
Route of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Zirconyl chloride: Acute oral toxicity (LD50): 1227 mg/kg (Mouse).
	Alzarin: Acute oral toxicity (LD50): 316 mg/kg (Bird).
	Methanol: Acute oral toxicity (LD50): 5628 mg/kg (Rat.).
	Acute dermal toxicity (LD50): 15800 mg/kg (Rabbit.).
	Acute toxicity of the vapor (LC50): 64000 4 hours (Rat.).
Chronic Effects on Humans	Hazardous in case of ingestion, of inhalation, of skin contact (irritant).
	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None.
	by OSHA. TERATOGENIC EFFECTS: Classified POSSIBLE for human.
	DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female,
	Development toxin [POSSIBLE].
	Causes damage to the following organs: the nervous system, gastrointestinal
	tract, eyes. May cause damage to the following organs: blood, kidneys, lungs,
	the reproductive system, liver, heart, brain, cardiovascular system, skin, central
	nervous system (CNS), pancreas. Causes damage to the following organs:
Other Toxic Effects on Humans	lungs, mucous membranes.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

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Section 12. Ecological Information					
Ecotoxicity		Not available.			
BOD5 and COD		Not available.			
Products of Biodegradation		Possibly hazardous short term degradation products are not likely. However, long term degradation products mayarise.			
Toxicity of the Products of Biodegrad	lation	The products of degradation are more toxic.			
Special Remarks on the Products of H	Biodegradation	Not available.			
Section 13. Disposal Conside	erations				
Waste Disposal Recycle to p	process, if possible.	Consult your local or regional authorities.			
Section 14. Transport Inform	ation				
DOT Classification Class 8, corr	Class 8, corrosive liquid				
Identification Corrosive liquid, nos, (Zirconyl Chloride), 8, UN1760, III					
Special Provisions Not available. for Transport					
Section 15. Other Regulatory	Section 15. Other Regulatory Information and Pictograms				
Pennsylvania RTK: Minnesota: Methyl Massachusetts RTK: New Jersey: Methyl California Directors Tennesse Hazardous TSCA 8(b) inventor SARA 313 toxic che		yl alcohol K: Methyl alcohol			
Cantornia rioposition 0,5 warnings					
Other Regulation	OSHA: Hazardou	is by definition of Hazard Communication Standard (29 CFR 1910.1200).			
Other classifications Not available.					

Section 16. Other Information

Part Number(s)	RE2035
References	Not available.
Other Special Considerations	Not available.
Validated by	R. Houghton 10/9/02
Verified by	R. Turkington
Call 1-800-543-5487	C C

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, HazTech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.