NFPA



Material Safety Data Sheet

HMIS

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Health Hazard

Fire Hazard

Reactivity

Personal Protective Equipment



See Section 15.

Section 1. Chem	Section 1. Chemical Product and Company Identification Page Number: 1 of Page Number		
Trade Name	CX Test 1	Code	RE2133
		CAS#	7705-08-0
Manufacturer	HazTech Systems, Inc.	RTECS	LJ9100000
	P.O. Box 929 Mariposa, CA 95338	TSCA	TSCA 8(b) inventory: Ferric chloride
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Not available.	DI CLOP OF	EMEDGENOV
Chemical Name			EMERGENCY (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5 ⁻	16-8000
Chemical Formula	FeCl3		
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2. Composition and Information on Ingredients

			Exposure Limits		
Name	CAS #	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Ferric chloride	7705-08-0	1		2	100

Toxicological Data on Ingredients Ferric chloride ORAL (LD50):

Acute: 900 mg/kg [Rat]. 1278 mg/kg [Mouse].

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Page Number: 2 of 6 CX Test 1 **Potential Chronic Health** CARCINOGENIC EFFECTSNot available. MUTAGENIC EFFECTSNot available. Effects TERATOGENIC EFFECTSNot available. DEVELOPMENTAL TOXICITY : Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eves to a low level of dust can produce eve irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Section 4. First Aid 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. Do not use an eye ointment. Seek medical attention. **Skin Contact** If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention. Inhalation Allow the victim to rest in a well ventilated area. Seek immediate medical attention. **Serious Inhalation** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
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 available.
Special Remarks on Explosion Hazards	Not available.

Page Number: 3 of 6	Page	Num	ber:	3	of	6
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Section 6. Accidental Release Measures

 Small Spill
 Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

 Large Spill
 Corrosive solid.

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. **Neutralize the residue with a dilute solution of sodium carbonate.** Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions

CX Test 1

Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Do not ingest. Do not breathe dust. Never add water to this product Avoid shock and friction. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage

Corrosive materials should be stored in a separate safety storage cabinet or room.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	f Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 1 CEIL: 2 (mg/㎡)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical state and appearance	e Solid.	Odor	Not available.
Molecular Weight	162.21 g/mole	Taste	Not available.
pH (1% soln/water)	2 [Acidic.]	Color	Not available.
Boiling Point	316∞C (600.8∞F)		
Melting Point	306∞C (582.8∞F)		
Critical Temperature	Not available.		
Specific Gravity	2.9 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	5.61 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		

Page Number: 4 of 6

CX Test 1

Solubility

Soluble in cold water.

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Not available.	
Incompatibility with various substances	The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self-reactive under conditions of shock or increase in temperature or pressure.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information

Routes of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 900 mg/kg [Rat].
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes.
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).
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.

Section 12. Ecological InformationEcotoxicityNot available.BOD5 and CODNot available.Products of BiodegradationPossibly hazardous short term degradation products are not likely. However, long term degradation products may arise.Toxicity of the Products
of BiodegradationThe products of degradation are more toxic.Special Remarks on the
Products of BiodegradationNot available.



CX Test 1

Section 13. Disposal Considerations

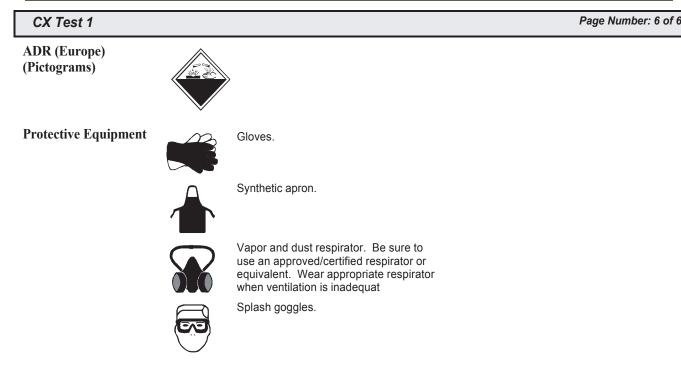
Waste Disposal

Section 14. Transport Information DOT Classification CLASS 8: Corrosive solid. Identification : Ferric chloride, anhydrous : UN1773 PG: III Special Provisions for Transport Not available. DOT (Pictograms) Vot available.

Page Number: 5 of 6

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	Pennsylvania RTK: Ferric chloride Massachusetts RTK: Ferric chloride TSCA 8(b) inventory: Ferric chloride CERCLA: Hazardous substances.: Ferric chloride
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications	CLASS E: Corrosive solid. CLASS F: Dangerously reactive material.
	R36/38- Irritating to eyes and skin.
HMIS (U.S.A.)	Health Hazard 3 Fire Hazard 0 Reactivity 2 Personal Protection i
WHMIS (Canada) (Pictograms)	
DSCL (Europe) (Pictograms)	
TDG (Canada) (Pictograms)	



Section 16. Other Information Catalog Number(s) RE2133 References Not available. Other Special Considerations Not available. Validated by R. Turkignton Verified by R. Turkignton Verified by R. Turkignton

CALL (310) 516-8000

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, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.