

MATERIAL SAFETY DATA SHEET

Ferric Chloride Solution Alcoholic, for TBC Test

SECTION 1 . Product and Company Identification

Product Name and Synonym: Ferric Chloride Solution Alcoholic, for TBC Test
Product Code: 3770
Material Uses:
Manufacturer: Science Stuff
1104 Newport Ave
Austin, TX 78753
(512) 837-6020
Entry Date : 6/4/2013
Print Date: 6/4/2013
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3
Flammability:	3
Reactivity:	0
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Alcohol, Reagent Denatured Ethyl Alcohol		Balance	V/V	OSHA TWA 1000 ppm (1900 mg/mf)
<input type="checkbox"/>	Ferric Chloride Hexahydrate	CAS# 10025-77-1	<10%	W/V	OSHA TWA 1 mg(Fe)/mf
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	0.92%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/mf

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: CALL A PHYSICIAN. SKIN: Remove contaminated clothing. Wash exposed area with soap and water.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, Carbon dioxide, dry chemical, powder, foam.

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Fire / Explosion Hazards: Above flashpoint, vapor-air mixtures are explosive within flammable limits. Vapors may flow along surfaces to distant ignition source and flash back.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Dispose of in a manner consistent with federal, state and local regulations.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry well ventalated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Organic cartridge or self-contained Ventilation

Local Exhaust
Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Use safe laboratory handling procedures.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	-114° C	Percent Volatile by Volume:	>95%
Boiling Point:	78° C	Evaporation Rate	N/E
Vapor Pressure:	50 mm Hg @ 25° C	Evaporation Standard	Not Applicable
Vapor Density:	1.6	Auto Ignition Temp	422° C
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	3.3%
Appearance /Odors:	Clear yellow solution / ethyl alcohol odor	Upper Flamm. Limit in Air	19%
Flash Point:	13° C		
Specific Gravity:	.79		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid heat and ignition sources

Materials to Avoid: Oxidizers, silver salts, halogen halides, alkalie metals, metal hydrides

Hazardous Decomposition Products: Carbon oxides

Hazardous polymerization: Will Not Occur

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Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Flammable Liquid, n.o.s. (Denatured Alcohol), 3, UN1993, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, respiratory, or kidney/liver disorders may be more susceptible. Toxic due to denaturants. Acute: irritation to skin, eyes, lungs, mucous membranes, and GI tract. Nausea, headache, narcosis, dizziness, and vision difficulties. Chronic: liver/kidney damage, blindness, pancreatitis, and nerve disorders.

Flammability

Health

Reactivity

Revisions

NFPA

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