

MATERIAL SAFETY DATA SHEET

Ferric Chloride Oxidizing Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Ferric Chloride Oxidizing Solution
Product Code: 3785
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: | 1 |
| Flammability: | 0 |
| Reactivity: | 0 |
| Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established | |

SECTION 2 HAZARD IDENTIFICATION

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

SECTION 3 MIXTURE COMPONENTS

| SARA 313 | Component | CAS Number | Percent Comp. | Dimension | Exposure Limits |
|--------------------------|-------------------------------|-----------------|---------------|-----------|------------------------------------|
| <input type="checkbox"/> | Ferric Chloride Hexahydrate | CAS# 10025-77-1 | 1% | W/V | OSHA TWA 1 mg(Fe)/mf |
| <input type="checkbox"/> | Sulfamic Acid | CAS# 5329-14-6 | 1.6% | W/V | TXDS: orl-rat LDLo: 1,600 mg/Kg |
| <input type="checkbox"/> | Water, Deionized ASTM Type II | CAS# 7732-18-5 | Balance | V/V | None Established |

SECTION 4 FIRST AID MEASURES

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

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: Any means suitable for extinguishing surrounding fire

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Fire / Explosion Hazards: None
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Wear appropriate gloves to prevent skin exposure
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|--------------------------------|-----------------------------|---------------------------|
| Melting Point: | ~0° C | Percent Volatile by Volume: | >97 |
| Boiling Point: | ~100° C | Evaporation Rate | Information not available |
| Vapor Pressure: | Information not available | Evaporation Standard | |
| Vapor Density: | Information not available | Auto Ignition Temp | Not applicable |
| Solubility in Water: | Soluble | Lower Flamm. Limit in Air | Not applicable |
| Appearance /Odors: | Clear, yellow, odorless liquid | Upper Flamm. Limit in Air | Not applicable |
| Flash Point: | Not applicable | | |
| Specific Gravity: | ~1 | | |

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Temperature extremes
Materials to Avoid: None known
Hazardous Decomposition Products: None known
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

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SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Not Regulated

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 pre-existing skin, eye or respiratory disorders will be more susceptible. Acute: May cause skin, eye, respiratory or GI tract irritation. Chronic: None reported.

Flammability

Health

Reactivity

Revisions

NFPA

0.4

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