

1. Identification

Product Name: Ferric Chloride, 10%

Synonyms: N/A

Recommended Use: Special Stains

Manufacturer/Supplier: Avantik 19 Chapin Road - Building C

Pine Brook, NJ 07058 1-800-783-9424 Item #:

Restrictions on Use: N/A In Case of Emergency: Chemtrec US 1-800-424-9300 Chemtrec International 703-527-3887

#### 2. Hazards Identification

## **OSHA Hazard Classification(s):**

Skin Corrosion - Category 1A Eye Damage - Category 1 **Signal Word:** Danger

Hazard Statement(s): Causes severe skin burns and eye damage. Causes serious eye damage.

Pictogram(s):



**Precautionary Statement(s):** Prevention: Do not breathe dusts or mists. Wash body thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection, face protection.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Specific treatment (see first aid section on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulations.

Descriptions of Hazards not otherwise classified: N/A Percent of mixture with unknown acute toxicity: N/A

# 3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS#	Concentration %
Water		7732-18-5	90
Ferric Chloride		10025-77-1	10

#### 4. First Aid Measures

**Eye Contact:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention immediately.

**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention immediately.

**Inhalation:** Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell. **Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Symptoms: Irritation eyes, nose, throat; headache, dizziness

Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.



#### 5. Fire- Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water.

Fire Hazards (Chemical): Not flammable.

**Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing. **Precautions for Firefighters:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

#### 6. Accidental Release Measures

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

Protective Equipment: See section 8

**Environmental Precautions:** Prevent release to the environment by using barriers.

Containment and Clean-Up Procedures: Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

#### 7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product. See section 8 for personal protection

**Storage:** Store locked up. Store in a well-ventilated, cool place. Keep lid tightly closed until ready to use. Do not store in metal container.

#### 8. Exposure Controls/Personal Protection

#### **OSHA Permissible Exposure Limits (PELs):**

Reagent	CAS#	OSHA PEL TWA
Ferric Chloride	10025-77-1	N/A

## **ACGIH Threshold Limit Values (TLVs):**

Reagent	CAS#	ACGIH PEL TLV	ACGIH STEL
Ferric Chloride	10025-77-1	1 mg(Fe)/m3	

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas

**Personal Protective Measures:** Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

Special PPE Requirements: If ventilation hood not available wear respirator.

#### 9. Physical and Chemical Properties Section

Appearance: Brown, Brown Liquid

Molecular Weight: N/A Molecular Formula: N/A

**pH:** 1.1-1.3

**Boiling Point and Boiling Range:** N/A **Melting Point/Freezing Point:** N/A

Flash Point: N/A

Specific Gravity/Relative Density: N/A

Odor: N/A

Odor Threshold: N/A

Color: Brown

Flammability (solid/gas): N/A

Vapor Density: N/A



Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: N/A Evaporation Rate: N/A

Partition Coefficient: n-octanol/water: N/A

Viscosity: N/A

**Auto-ignition temperature: N/A** 

Solubility: N/A

**Decomposition Temperature: N/A** 

#### 10. Stability and Reactivity

Reactivity:

Chemical Stability: Stable

Conditions of Stability/Instability: N/A

Stabilizers needed: None

Safety issue indicated by appearance change: N/A

Other: N/A

Hazardous Reactions: N/A

Hazardous Polymerization: Does not occur

Conditions to avoid: N/A

Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases, may be corrosive to metals.

Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors

(I.e. Carbon monoxide) may be released in a fire.

## 11. Toxicological Information

## **Likely Routes of Exposure**

**Eyes:** Corrosive to eyes. May cause permanent damage to corneal and loss of vision. May cause pain, redness, swelling. very acidic solution.

Skin: Corrosive to skin. May cause permanent damage and scarring. May cause pain, redness and swelling. Very acidic solution.

Inhalation: Dizziness, headache. Corrosive solution, inhalation of vapors may be harmful or irritating.

Ingestion: Corrosive solution. May cause burns to mouth, throat, stomach and digestive tract. May cause nausea.

Signs or Symptoms of Exposure: Nausea.

Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache,

dizziness, nausea.

Acute Toxicity (Numerical Measures): N/A Carcinogenicity (NTP, IARC, OSHA): N/A

#### 12. Ecological Information

**Ecotoxicity: N/A** 

Persistence and degradability: N/A

Bioaccumulation Potential (octanol-water partition coefficient, BCF): N/A

Mobility in the soil: N/A

Adverse Environmental Effects: Toxic to aquatic life with long lasting effects.

#### 13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities\*

Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.\*

Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.\*

Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.\*



Waste Stream: Consult your local or regional authorities.\*

# 14. Transport Information

UN Number: UN2582

UN Proper Shipping Name: Ferric Chloride Solution

Transport Hazard Class(es): 8
Packing Group Number: III

**Environmental Hazards (IMDG code):** 

Marine Pollutant: No

Transport in Bulk (IBC Code): Special Transport Precautions:

# 15. Regulatory Information

OSHA: DOT: EPA: CPSC:



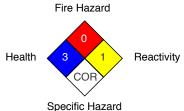
## 16. Other Information

# Revision Date: 01/12/2015

#### **NFPA**

Health	3
Fire Hazard	0
Reactivity	1
Specific Hazard	COR

# National Fire Protection Association (USA) NFPA



## **HMIS**

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	

## Hazardous Material Information System HMIS



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