

# SAFETY DATA SHEET

## FERRIC CHLORIDE, Hexahydrate

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Ferric chloride hexahydrate  
Catalog Number: FER002

#### Potential Health Effects

**Target Organs:** skin, eyes, respiratory system  
**Eyes:** causes eye irritation.  
**Skin:** causes skin irritation.  
**Inhalation:** causes irritation.. May be harmful if inhaled  
**Ingestion:** causes irritation of the digestive. May be harmful if swallowed tract.

**CHRONIC HEALTH HAZARDS:** no information found

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification:

Corrosive to metals (Category 1)  
Acute toxicity, Oral (Category 4)  
Skin irritation (Category 2)  
Serious eye damage (Category 1)

Pictogram:



Signal word: DANGER

#### Hazard Statements:

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage

#### Precautionary Statements:

P260 Do not breathe dust or mist.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
<b>Ferric Chloride Hexahydrate</b>	<b>10025-77-1</b>	<b>99%</b>

**Molecular Formula:** FeCl<sub>3</sub>.6H<sub>2</sub>O  
**Molecular Weight:** 270.29

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL AID.  
**Skin:** Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes..  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . GET MEDICAL ATTENTION.  
**Ingestion:** Wash mouth with water. GET MEDICAL ATTENTION .

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature.

# SAFETY DATA SHEET

## FERRIC CHLORIDE, Hexahydrate

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: Canada: TWA 1mg/m<sup>3</sup>  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** yellow to brown. Odorless  
**Melting Point:** 37° C  
**Boiling Point:** 280-285C  
**Specific Gravity:** 1.82  
**Vapor Density:** N/A  
**Water Solubility:** soluble  
**pH:** 2.0 (0.1M)

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal conditions of temperature and pressure  
**Incompatibility:** oxidizing agents, potassium, sodium alkali metals  
**Conditions to avoid:** water, moisture, dust generation  
**Hazardous Decomposition Products:** Hydrogen chloride, toxic fumes of chlorine, oxides of iron  
**Hazardous Polymerization:** Will not occur.

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**  
Oral, mouse : LD50= 200mg/kg  
Oral rat: LD50=316 mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**DOT (US)**  
UN number: 3260 Class: 8 Packing group: III  
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Iron trichloride hexahydrate)  
Reportable Quantity (RQ): 1000 lbs  
Poison Inhalation Hazard: No  
**IMDG**  
UN number: 3260 Class: 8 Packing group: III EMS-No: F-A, S-B  
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron trichloride hexahydrate)  
**IATA**  
UN number: 3260 Class: 8 Packing group: III  
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Iron trichloride hexahydrate)

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: not listed  
**European/International:** N/A

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Dec 29/2021  
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.