

**Science Kit
& Boreal
Laboratories**

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MSDS No. FF 80

Effective Date: 25 February, 1999

MATERIAL SAFETY DATA SHEET

SECTION I NAME

Product	Ferric chloride hexahydrate
Chemical Synonyms	N/A
Formula	FeCl ₃ ·6H ₂ O
C.A.S. No.	10025-77-1

24 HOUR EMERGENCY ASSISTANCE

416-984-3000	
NFPA	
HAZARD RATING	WHMIS
LEAST SLIGHT MODERATE	HIGH EXTREME
0 1 2 3 4	

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Ferric chloride hexahydrate	100%	None established.
DANGER! Corrosive.		

SECTION III PHYSICAL DATA

Melting Point (°F)	37°C	Specific Gravity (H ₂ O = 1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (= 1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	Dark lumps; mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	Lower	Upper
FIREFIGHTING PROCEDURES	Non-flammable.			

FLAMMABILITY AND EXPLOSION HAZARDS

Non-flammable.

TDG Class 8 Corrosive solid, UN 1759

SECTION V REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X

Incompatible with Other products	Yes X No	Metals, bases, oxidizing materials, water.
Hazardous Decomposition Products	These products are carbon oxides (CO, CO ₂), halogenated compounds.	
Reactive under what conditions	May react in presence of moisture.	

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation, eyes.
TLV	1 mg/m ³ (Fe).
Toxicity for animals	N/A
Chronic effects on humans	Repeated exposure of the eyes to a low level of dust can produce eye 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.
Acute effects on humans	Causes severe eye and skin burns.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep away from incompatible materials. Corrosive materials should be stored in a separate safety storage cabinet or room.
Precautions	Keep container dry. DO NOT breathe dust. Do not ingest. If ingested, seek immediate medical advice.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Protective Clothing	Safety goggles. Synthetic apron. Vapor and dust respirator.

SECTION VIII FIRST AID MEASURES

Specific 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. Seek medical attention. Skin contact: If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Seek medical attention. Inhalation: Allow victim to rest in a well ventilated area. Seek immediate medical attention. Ingestion: DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No. 2	Date 25 February, 1999	Approved Michael Raszeja	Chemical Safety Coordinator MR
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