

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT INFORMATION

Product Identifier:	Ferric Chloride Solution
Product Use:	Colorimetric testing
Supplier:	Syntharise Chemical Inc.
Emergency Contact:	3E Company
Emergency Telephone:	1-(800)360-3220

SECTION 2 — HAZARDOUS INGREDIENTS

Hazardous Ingredients	%	CAS Number	LD50 of Ingredient	LC50 of Ingredient
Iron (III) Chloride hexahydrate	2%	10025-77-1	LD50 Oral-Rat-900 mg/kg	Not available
Distilled Water	98%		LD50 Oral-Rat->90000mg/kg	Not available

SECTION 3 — PHYSICAL DATA

Physical State :	Liquid
Odour & Appearance :	Odourless yellow liquid
Odour Threshold (ppm):	Not Available
Specific Gravity:	Not Available
Vapour Density (air = 1) :	Not Available
Vapour Pressure (mmHg) :	Not Available
Evaporation Rate:	Not Available
Boiling Point (°C) :	Not Available
Freezing Point (°C):	Not Available
pH	Not Available

SECTION 4 — FIRE AND EXPLOSION DATA

Means of Extinction:	N/A- non-flammable
Flashpoint (°C) and Method :	N/A
Upper Flammable Limit (% by volume) :	N/A
Lower Flammable Limit (% by volume):	N/A
Autoignition Temperature (°C):	N/A
Explosion Data — Sensitivity to Impact:	No
Explosion Data — Sensitivity to Static Discharge:	No
Hazardous Combustion Products:	Hydrogen Chloride, metal oxide fumes

SECTION 5 — REACTIVITY DATA

Chemically Stable	Yes
Incompatibility:	Strong oxidizing agents, strong bases
Conditions to be avoided:	N/A
Hazardous Decomposition Products:	Under fire conditions; Hydrogen Chloride, metal oxide fumes

SECTION 6 — TOXICOLOGICAL PROPERTIES

Routes of Exposure:	Ingestion, skin & eyes
Acute Exposure:	Iron (III) Chloride: LD50 Oral-Rat-900 mg/kg Harmful if swallowed. Swallowing will cause strong corrosive effect on the mouth & to the danger of perforation of the esophagus and stomach.
Chronic Exposure:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance
Exposure Limits: (value, source, date)	Iron (III) Chloride(100%): OEL TWA 1mg/m3 OEL TWAEV 1mg/m3 OEL STEL 2mg/m3
Irritancy:	Causes severe skin burns.
Sensitization:	Not Available
Carcinogenicity:	Not Available
Reproductive Toxicity:	Not Available

Teratogenicity:	Not Available
Mutagenicity :	Not Available
Synergistic Products:	Not Available

SECTION 7 — PREVENTIVE MEASURES

Personal Protective Equipment:	Chemical resistant gloves, chemical safety goggles and lab coat/protective work clothing.
Handling:	Avoid contact with skin, eyes and clothing. Always wear protective gloves while working with product. Safety glasses are required to prevent injury. Wear appropriate protective clothing and boots as required to prevent skin contact. For field use, a rubber apron may be worn as additional protection. Use good industrial hygiene. Work carefully with the reagent and always wear protective equipment.
Leak and Spill Procedure:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Use neutralizing agent.
Waste Disposal:	Dispose of according to local and regional authority requirements. Prevent from entering sewers, waterways or ground/soil.
Engineering Controls:	If user operations generate vapour or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Storage Requirements:	Store away from bases and oxidizing agents.
Special Shipping Information:	UN#3316 - Chemical Kit, Class 9, Packing Group II

SECTION 8 — FIRST AID MEASURES

Inhalation:	Place victim in well-ventilated area. If victim is not breathing, perform artificial respiration. Seek immediate medical attention.
Ingestion:	Seek immediate medical help.
Skin Contact:	Immediately wash with water and soap and rinse thoroughly. Seek medical advice.
Eye Contact:	Rinse opened eye(s) for several minutes under running water. Then consult a doctor.

SECTION 9 — PREPARATION INFORMATION

Prepared by:	Syntharise Chemical Inc.
Telephone Number:	1(647)766-1657
Preparation Date:	March 2 nd , 2015

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.