

**Section 1: Identification**
**Product Name** Ferric Chloride Purified Hexahydrate ACS

**Commercial Name** Not available

**Product Use** Not available

**Restrictions On Use** Not available

**Product Code** 50-4459

**Company** PCCA  
 9901 South Wilcrest  
 Houston, TX 77099  
 Phone: 1-800-331-2498  
 Fax: 1-800-874-5760

 In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**
**Section 2: Hazard(s) Identification**
**OSHA Haz Com:** Acute oral toxicity Category 4 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation  
**CFR 1910.1200** Category 1 Skin Sensitization Category 1 Specific target organ toxicity - (repeated exposure) Category 2  
 Target Organs - Kidney, Liver, Blood

**Signal Word** DANGER

**Hazard Statement(s)** Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**
**Prevention** Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Contaminated work clothing should not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

**Response** Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention Eyes 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 or doctor/physician Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

**Storage** Store in a well-ventilated place. Keep container tightly closed Store locked up

**Disposal** Dispose of contents/container to an approved waste disposal plant

**Section 3: Composition/Information on Ingredients**
**Substance/Mixture** Substance

**Components** Ferric Chloride Purified Hexahydrate ACS

**% By Weight** 100

**CAS#** 10025-77-1

**Molecular Weight** 270.3000g/mol

**Chemical Formula** FeCl<sub>3</sub>.6H<sub>2</sub>O

**Synonym(s)** Ferric Chloride, Hexahydrate. Ferric Trichloride Hexahydrate. Iron (III) Chloride, Hexahydrate. Iron Trichloride Hexahydrate

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Ferric Chloride Purified Hexahydrate ACS	10025-77-1	100	N/A	N/A

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**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Causes eye burns. May cause allergic skin reaction. Causes severe eye damage. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
<b>Delayed</b>	Causes eye burns. May cause allergic skin reaction. Causes severe eye damage. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
<b>Immediate Medical Attention</b>	Treat symptomatically

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. May ignite combustibles (wood, paper, oil, clothing, etc.). In the event of fire and/or explosion do not breathe fumes. Keep product and empty container away from heat and sources of ignition.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Chlorine. Metal oxides. Hydrogen chloride gas.

**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

Personal Precautions: Use personal protective equipment as required. Avoid dust formation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Environmental Precautions: Should not be released into the environment. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Methods for Containment and Clean Up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

**Section 7: Handling and Storage**

Handling: Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Do not taste or swallow. Use only under a chemical fume hood. Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from water or moist air. Incompatible Materials: Strong oxidizing agents. Metals. Strong bases.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Iron (III) chloride hexahydrate and Iron(III) chloride ACGIH TLV: TWA: 1 mg/m <sup>3</sup> OSHA PEL: (Vacated) TWA: 1 mg/m <sup>3</sup> NIOSH IDLH: TWA: 1 mg/m <sup>3</sup> Mexico OEL (TWA): TWA: 1 mg/m <sup>3</sup>
<b>Engineering Controls</b>	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

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**Personal Protection**

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

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**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Dark yellow Solid.		
<b>Odor</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	37 °C / 98.6 °F	<b>pH</b>	2 0.1M in water
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not available.
<b>Boiling Point/Range</b>	280 - 285 °C / 536 - 545	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Not available.		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	None known, based on information available
<b>Chemical Stability</b>	Hygroscopic
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur
<b>Conditions to Avoid</b>	Avoid dust formation. Incompatible products. Excess heat. Exposure to air or moisture over prolonged periods
<b>Incompatible Materials</b>	Strong oxidizing agents, Metals, Strong bases
<b>Hazardous Decomposition Products</b>	Chlorine, Metal oxides, Hydrogen chloride gas

**Section 11: Toxicological Information**

<b>RTECS</b>	NO5425000
<b>Acute Toxicity</b>	
LD50 Oral: Iron (III) chloride hexahydrate LD50 = 900 mg/kg ( Rat ) Iron(III) chloride 450 mg/kg ( Rat ) 316 mg/kg ( Rat )	
<b>Skin Corrosion/Irritation</b>	
Irritating to skin	
<b>Serious Eye Damage/Irritation</b>	
Causes eye burns,	
<b>Respiratory or Skin Sensitization</b>	
May cause irritation of respiratory tract. May cause sensitization by skin contact	
<b>Germ Cell Mutagenicity</b>	
Not available.	
<b>Carcinogenicity</b>	
Not available.	
<b>Reproductive Toxicity</b>	
Not available.	
<b>Routes of Entry</b>	
Not available.	

**Symptoms Related to Exposure**

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Potential Health Effects**

Not available.

**Target Organ(s)** STOT - repeated exposure Kidney Liver Blood

**Section 12: Ecological Information****Ecotoxicity**

Freshwater Fish: Iron (III) chloride hexahydrate: 22 mg/l 96H (anh subst) Iron(III) chloride: LC50: 20.95 - 22.56 mg/L, 96h semi-static (Pimephales promelas) LC50: = 20.26 mg/L, 96h semi-static Lepomis macrochirus) Water Flea: Iron (III) chloride hexahydrate: 9.6 mg/l 48H (anh subst) Iron(III) chloride: EC50: = 27.9 mg/L, 48h (Daphnia magna) EC50: = 9.6 mg/L, 48h Static (Daphnia magna)

**Persistence and Degradability**

May persist

**Bioaccumulative Potential**

Not available.

**Mobility in Soil**

Will likely be mobile in the environment due to its water solubility.

**Other Adverse Effects**

Not available.

**Section 13: Disposal Considerations****Waste Disposal**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Disposal of Container**

Not available.

**Other Considerations**

Not available.

**Section 14: Transport Information****DOT Classification**

DOT UN-No UN3260 Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s. Technical Name Iron (III) chloride hexahydrate Hazard Class 8 Packing Group III

**Section 15: Regulatory Information****Regulations**

SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Component CWA - Hazardous Substances CWA - Reportable Quantities CWA - Toxic Pollutants CWA - Priority Pollutants Iron(III) chloride X 1000 lb - - Clean Air Act Not applicable OSHA - Occupational Safety and Health Administration Not applicable CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) Component Hazardous Substances RQs CERCLA EHS RQs Iron(III) chloride 1000 lb - California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island Iron (III) chloride hexahydrate - - X - X Iron(III) chloride X X X - X U.S. Department of Transportation Reportable Quantity (RQ): Y

**Other**

Not available.

**Section 16: Other Information**



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Not available.