

## FERRIC CHLORIDE (ANH) EXTRA PURE

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** FERRIC CHLORIDE(ANH) EXTRA PURE

**Product Code:** 331

**CAS#:** 7705-08-0

**Synonym:** Not Available

**Chemical Name:** Not Available.

**Chemical Formula:**  $\text{FeCl}_3$

**Formula Weight:** 162.20

**Chemical Formula:** KCl

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

**Name:** FERRIC CHLORIDE (ANH) EXTRA PURE

**Toxicological Data on Ingredients:**

**Classification according to Regulation (EC) No 1272/2008**

Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315 Serious  
eye damage (Category 1), H318

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Potential Acute Health Effects:** Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive). Slightly hazardous in case of skin contact (permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:** The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. 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.

**Carcinogenic effects:** Not available.

**Mutagenic effects:** Not available.

**Teratogenic effects:** Not available.

**Developmental toxicity:** Not available

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

**Serious Skin Contact:** Not available.



**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not Available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available

## SECTION 5: FIRE FIGHTING MEASURES

**Flammability of the Product:** Not Available.

**Auto-Ignition Temperature:** Not Available.

**Flash Points:** Not Applicable.

**Flammable Limits:** Not Applicable.

**Products of Combustion:** Not Applicable

**Fire Hazards in Presence of Various Substances:** Not Applicable.

**Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not Available.

**Risks of explosion of the product in presence of static discharge:** Not available

**Fire Fighting Media and Instructions:**

**Small fire:** Not Applicable.

**Large fire:** Not Applicable.

**Special Remarks on Fire Hazards:** Not Available.

**Special Remarks on Explosion Hazards:** Not Available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container

**Large Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container

## SECTION 7: HANDLING AND STORAGE

**Precautions:** Keep container dry. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids. May corrode glass. Store in an appropriate container.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection in Case of a Large Spill:**

Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** TWA: 2.5 Consult local authorities for acceptable exposure limits.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: Black greenish color crystalline powder.
Odour	: Not available
Taste	: Not available
Molecular Weight	: Not available
Colour	: Not available
pH	: Not available
Boiling Point	: Not available
Melting Point	: 304 °C(579.2°F)
Critical Temperature	: Not available
Specific Density	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not Available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Very soluble in water

## SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is chemically stable under standard ambient conditions.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available

**Incompatibility with various substances:** React with acid

**Corrosivity:** Corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available

**Polymerization:** No.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye Contact and ingestion and Inhalation.

**Toxicity to Animals:**

**LD<sub>50</sub>:** LD50 Oral - Mouse - 1,300 mg/kg

**LC<sub>50</sub>:** Not available.

**Chronic Effects on Humans:** Causes damage to the following organs: lungs and mucous membrane

**Other Toxic Effects on Humans:** Extremely hazardous in case of skin contact (irritant), of ingestion, . Very hazardous in case of skin contact (corrosive). Hazardous in case of eye contact (corrosive), of inhalation (lung corrosive). Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not Available.

**BOD and COD:** Not Available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.



**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not Available

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### SECTION 14: TRANSPORT INFORMATION

**DOT Classification:** Not available.

**Identification:** FERRIC CHLORIDE, ANHYDROUS

**UN number:** ADR/RID/IMDG/IATA: 1773

**Transport hazard class(es):** ADR/RID/IMDG/IATA:8

**PG:** ADR/RID/IMDG/IATA III

**Environmental hazards:**

**ADR/RID//IATA:** No

**IMDG Marine pollutant:** no

**Special Provisions for Transport:** Not applicable

### SECTION 15: OTHER REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 16: OTHER INFORMATION

**References: Full text of H AND R-Statements.**

H290 May be corrosive to metals.

H302 Harmful if swallowed. H315 Causes skin irritation.

H318 Causes serious eye damage.

**Other Special Considerations:** Not available.

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