
Section 3. Composition / information on ingredients

Chemical or common name:	Iron(III) chloride hexahydrate
Synonyms:	Ferric chloride hexahydrate
Chemical formula:	FeCl ₃ ·6H ₂ O
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	10025-77-1
RTECS#:	NO5425000
TSCA inventory :	Listed (anhydrous)
EINECS:	2317294 (anhydrous)

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	Carbon dioxide, Dry chemical powder, dry sand. DO NOT use a direct water stream.
Fire fighting:	The product is not combustible. In case of fire, the product may liberate irritating or toxic fume or gases. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Avoid unnecessary contacts with spills. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.
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Precautions to be taken in storage:

General precautions:	Store the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
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Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH(2019) : Iron salts, soluble (as Fe) ; TLV-TWA 1 mg/m ³ OSHA(2006) : No data available
Facility measures:	Local ventilation of closed work room or total proper ventilation to prevent inhalation.
Protective ware:	Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

Section 9. Physical and chemical properties

Appearance:	Brownish yellow solid.
Chemical formula:	FeCl ₃ ·6H ₂ O
Formula weight:	270.3
Melting point:	36.5 °C
Boiling point:	280 °C
Solubility in water:	Soluble
Solubility in:	Ethanol, ether, acetone
Flammable:	Non-combustible substance
Oxidation:	None

Section10. Stability and reactivity

Stability:	Stable in closed container under room temperature. Deliquescent.
Reactivity	
Condition to avoid:	Heat, moisture, air
Incompatibility:	Alkali metals, allyl chloride, ethylene oxide, styrene and bases.

Section11. Toxicological information

Acute toxicity(Oral):	GHS : Category 4 ; Harmful if swallowed FeCl ₃ ; Rat LD ₅₀ = 900 mg/kg etc. (SIDS(2008))
Skin corrosive / irritation:	GHS : Category 1 ; Causes severe skin burns and eye damage
Serious eye damage / irritation:	GHS : Category 1 ; Causes serious eye damage
Respiratory sensitization:	GHS : No data available
Skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : No data available
Specific target organ toxicity	
— single exposure:	GHS : Category 1 ; Causes damage to organs (Systemic toxicity) Category 3 ; May cause respiratory irritation
— repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available

Section12. Ecological information

Ecotoxicity:	
Hazardous to the aquatic environment	
— acute toxicity:	GHS : Category 3 ; Harmful to aquatic life FeCl ₃ ; Crustacea (Daphnia magna) LC ₅₀ (48h)= 37.5 mg/L (SIDS(2008))
— chronic toxicity:	GHS : Not classified.; Falls below the lowest level. FeCl ₃ ; Crustacea (Daphnia magna) NOEC(21d)= 2.0 mg/L (SIDS(2008))



Hazardous to the ozone layer	GHS : No data available No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN number:	3260
IATA shipping name:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
IATA classification:	Hazardous Class 8 (Corrosive substances)
IATA packing group:	III
HS code:	2827.39
Marine pollution:	None

Section 15. Regulatory information

TSCA inventory: Listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

This SDS is only for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

