



FERRIC CHLORIDE

CHEMICAL NAME / FORMULA :
Ferric Chloride / FeCl₃

FORMATION :
Lye, Flakes and Solid

PROPERTIES:

Appearance : Light brown liquid

Solubility : Highly soluble in water

Corrosive : Highly corrosive to most metals

Molecular weight : 162.5

INSTALLED CAPACITY

6,000 TPA

INPUT

Leach liquor consist of ferrous chloride generated in ilmenite plant

OUTPUT

Aqueous Ferric Chloride

SPECIFICATIONS:

Relative Density at 25 C : 1.43 Min

Ferric Chloride as FeCl₃ % : 40.00 Min

Ferrous Salt as FeCl₂ % : 0.10 Max

Free Acid as HCl % : 0.50 Max



PACKAGING AND HANDLING

Material is packed in 280 kg capacity HMHDPE Barrels. It also filled in lorry tankers and transported for sale in domestic market.



TRANSPORTATION CLASSIFICATION

U.N. No. 2582, IMCO Class – 8 IMDG Page – 8173



MATERIAL SAFETY DATA

Given Overleaf



END USERS

In effluent water & sewage, textile, etching, oxidizing as chlorinating and condensing agent, water treatment in Reverse Osmosis process etc.



MATERIAL SAFETY DATA

NAME OF THE PRODUCT	Ferric Chloride Solution
COMPOSITION / COMPONENTS	Aqueous Solution of min. 40% concentration
HAZARDS IDENTIFICATION	Corrosive – Class : 8
FIRST AID MEASURES	FYE SKIN-Wash with plenty of water for at least 15 minutes. If irritation persists, get medical attention.
MEASURES FOR FIRE FIGHTING	Not Flammable.
MEASURES IN CASE OF UNINTENTIONAL RELEASE	Cover the spillage with sufficient Sodium Bicarbonate or wash with profuse water.
HANDLING AND STORAGE	Corrosive to most metals. Hence, packed and Stored in Plastics. Rubber or Ceramic containers, HDPE, PP, Rubber bonded metal containers are recommended for both packing and storage.
EXPOSURE LIMIT AND STAFF PROTECTION EQUIPMENT	Use goggles or glasses, rubber gloves and safety boots made of natural or synthetic rubber.
PHYSICAL & CHEMICAL PROPERTIES	Light brown liquid without odour. Soluble in water and moderately soluble in organic solvents like alcohols, acetone, ethers, esters etc. Insoluble in glycerine, ethyl acetate etc. An oxidizing and chlorinating agent.
STABILITY AND REACTIVITY	Stable, Forms number of adducts and substitution Products.
INFORMATION OF TOXICOLOGY	Irritant to eyes, mouth and throat, vomiting and gastric haemorrhage and shortness of breath when swallowed.
INFORMATION ABOUT WASTE DISPOSAL	Neutralize with ammonia, soda ash or caustic and wash with profuse water into drain.
INFORMATION ABOUT TRANSPORT	No specific requirements. Transportable in HDPE barrels and Rubber lined tanks.
STATUTORY REGULATORY INFORMATION	Shipping Name L Ferric Chloride Solution. (Ferric Chloride 40% solution)
OTHER INFORMATION	Stowage Category – A. U.N. No.2582. IMDG Code Page No. 8173.