

Ferric Chloride

DESCRIPTION

Ferric Chloride is produced by the neutralization of Free Acid in Leach Liquor using Iron Scrap.

After Neutralization it is Chlorinated using Chlorine.

APPLICATIONS

Ferric Chloride used in Effluent Water & Sewage Treatment and the Textile industry.

CHEMICAL NAME & FORMULA

Ferric Chloride
 $FeCl_3$

INPUT

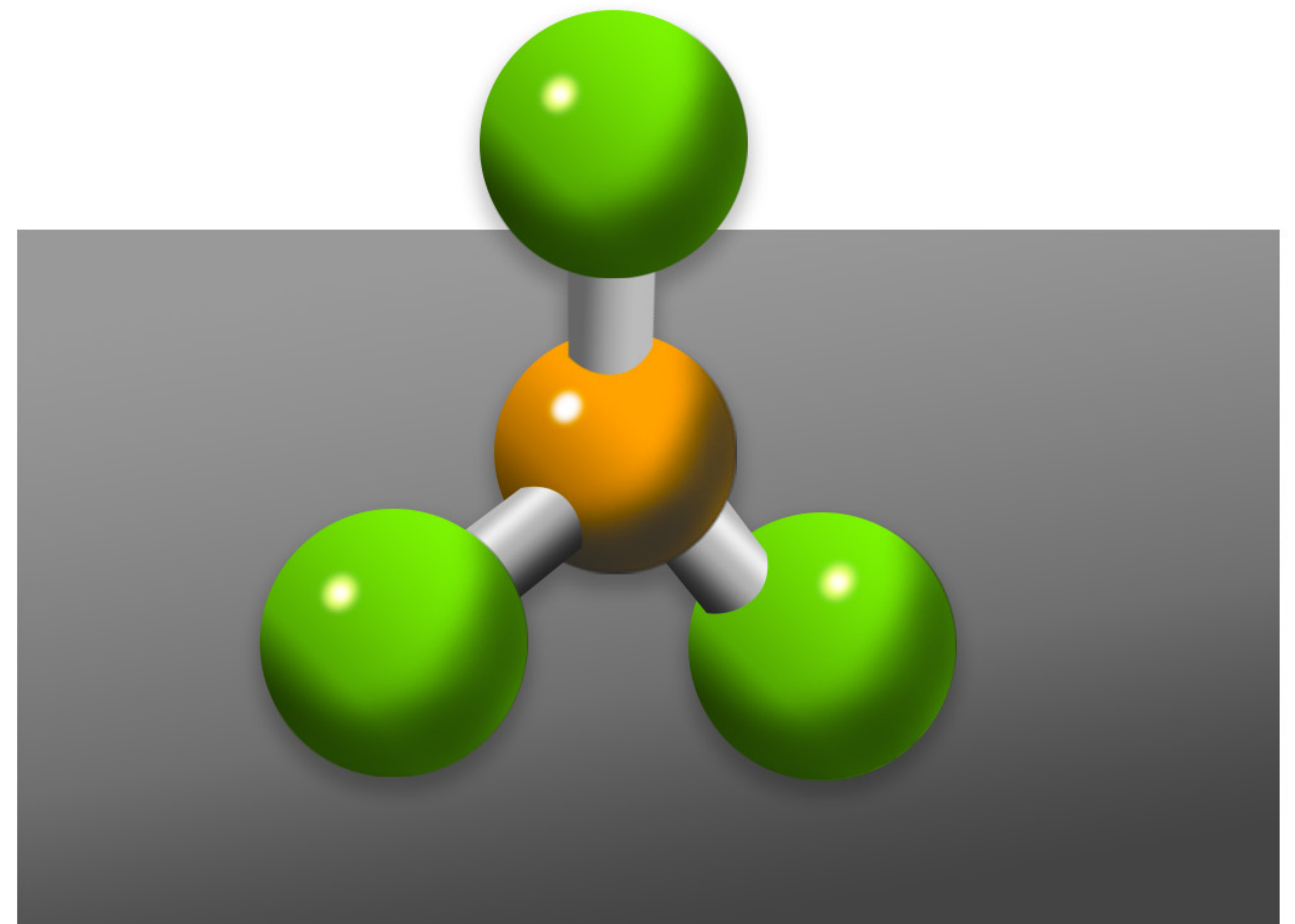
Leach Liquor

CHEMICAL FORMATION

Aqueous Solution

OUTPUT

Ferric Chloride



Product Properties

Description	Ferric Chloride
Appearance	Brownish Liquid
Corrosive	Yes
Flammability	Not Flammable
Solubility	Soluble
Specific Gravity	1.45 at 25°C

Product Specifications

Characteristics	Ferric Chloride
Relative Density at 25 / 25°C	1.45 to 1.48
Ferric chloride (as FeCl ₃) Percent by weight	40 to 43
Free acid (HCl) Percent by weight	0.01 to 0.50
Ferrous salts (as FeCl ₂) Percent by weight	0.10 max.
Insoluble matter Percent by weight	0.05 max.

Related Information

PACKAGING & HANDLING

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

TRANSPORT CLASSIFICATION

U.N. No. 2582
 IMCO Class 8 – I
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PRODUCT USAGES

In Effluent Water & Sewage, Textiles, Etchings, Oxidizing as a Chlorinating and Condensing Agent and for Water Treatment in the Reverse Osmosis Process.



Product Safety Data

Name of Product	Ferric Chloride Solution						
Composition / Components	Aqueous Solution of min. 40% concentration						
Hazard Identification	Corrosive Class 8						
First Aid Measures	Eye / Skin: Wash with plenty of water for at least 15 minutes. If irritation persists, get medical attention.						
Measures For Fire Fighting	Not Flammable						
First Aid Measures In Case Of Unintentional Release	Cover the spillage with sufficient Sodium Bicarbonate or wash with profuse water.						
Handling & 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 & 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 & 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: Ferric Chloride solution (Ferric Chloride 40% solution)						
Other Information	<table> <tr> <td>Storage Category</td> <td>A</td> </tr> <tr> <td>U.N.No.</td> <td>2582</td> </tr> <tr> <td>IMDG Code Page No.</td> <td>8173</td> </tr> </table>	Storage Category	A	U.N.No.	2582	IMDG Code Page No.	8173
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