

## Material Safety Datasheet

CAS No 7705-08-0  
 Date Issued: 2008/08/14  
 FERRIC CHLORIDE SOLUTION

## Company Details

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## 1. Product and Company Identification

<u>Trade / Commercial Name</u>	<b>FERRIC CHLORIDE SOLUTION</b>		
<u>Chemical Name</u>	Ferric chloride, solution		
<u>Formula</u>	Cl <sub>3</sub> Fe		
<u>Chemical Family</u>			
<u>Synonyms</u>	Iron Trichloride; Iron (III) chloride; Iron chloride; flores martis;		
<u>Un No</u>	2582	<u>Hazchem Code</u>	2t
<u>ERG No</u>	154	<u>EAC</u>	59

## 2. Composition

Hazardous Components Ferric chloride ~ 43 %

## 3. Hazards Identification

Corrosive  
 Poisonous if inhaled or swallowed.  
 Skin contact poisonous.  
 Contact could cause burns to skin and eyes.  
 Fire could produce irritating or poisonous gases.  
 Runoff from fire-control or dilution water could cause pollution.

## 4. First Aid Measures

<u>First Aid Skin</u>	Immediately remove contaminated clothing, including shoes. Wash affected area with plenty of soap and water for at least 20 minutes.
<u>First Aid Eyes</u>	Flush eyes with water for 15 minutes. Hold eyelids open while washing.
<u>First Aid Ingested</u>	Not applicable.
<u>First Aid Inhalation</u>	Not applicable.

## 5. Fire Fighting Measures

Some of these materials may react violently with water.  
 SMALL FIRES: Dry chemical, CO<sub>2</sub>, Halon, water spray or alcohol foam.  
 LARGE FIRES: Water spray, fog or standard foam is recommended.  
 Move container from fire area if you can do it without risk.  
 Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks.  
 Keep unnecessary people away; isolate hazard area and deny entry.  
 Stay upwind; keep out of low areas.  
 Positive-pressure self-contained breathing apparatus (SCBA) and

chemical protective clothing that is specifically recommended by the shipper or manufacturer may be worn. It will provide little or no thermal protection. Structural firefighter's protective clothing is NOT effective with these materials.

## 6. Accidental Release Measures

Breathing apparatus and protective gloves  
Dilute (substance may be washed to drain with a lot of water)  
PRECAUTIONS:  
Restrict access to area.  
Provide adequate protective equipment and ventilation.  
Remove sources of heat and flame.  
Notify occupational and environmental authorities.  
SPILL OR LEAK:  
Do not touch spilled material.  
Stop leak if you can do it without risk.  
Use water spray to reduce vapours.  
SMALL SPILLS:  
Takeup with sand or other noncombustible absorbent material and place into containers for later disposal.  
LARGE SPILLS:  
Dike liquid spill for later disposal

## 7. Handling And Storage

Separation of at least 3M from the following classes is recommended.  
Flammable Liquids Flammable Solids  
Spontaneously Combustibles Poison  
Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended.  
Flammable Gases Dangerous When Wet  
Oxidizing Agents Organic Peroxides  
Storage in the same room or space is prohibited with the following classes:  
The rooms or spaces should be at least 10M apart.  
Explosives Radioactive

## 8. Exposure Controls/Personal Protection

### Occupational Exposure Limits

#### Controls

#### No Exposure Limits Established

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash fountain readily available in the immediate work area

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection. Have appropriate equipment available for use in emergencies.

#### Personal Protection

## 9. Physical & Chemical Properties

Yellow solution, highly corrosive to most metals.  
SG: 1.45

## 10. Stability And Reactivity

### Conditions to Avoid

### Incompatible Materials

Other

## 11. Toxicological Information

## 12. Ecological Information

No ecological problems are expected when the product is handled and used with due care.

## 13. Disposal Considerations

### Disposal Method Product

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

### Disposal Method Packaging

Disposal in accordance with local legal provisions.

## 14. Transport Information

<u>UN No</u>	2582	<u>Hazchem Code</u>	2t
<u>ERG No</u>	154	<u>EAC</u>	59
<u>IMDG-Shipping Name</u>	FERRIC CHLORIDE SOLUTION		
<u>IMDG Code</u>	8164	<u>IMDG-Packaging Group</u>	III
<u>Marine Pollutant</u>	Yes		
<u>Class</u>	Class: 8 Corrosive Group: III		
<u>Subsidiary Risks</u>	None		

## 15. Regulatory Information

### EEC Hazard Classification

8

### Risk Phases

Causes severe burns

### Safety Phases

Keep out of reach of children  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advise  
Never add water to this product

### National Legislation

## 16. Other Information

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

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All information is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.