

# Safety Data Sheet

## According to Regulation (EC) 1907/2006



### 1359 Iron(III) Chloride 30% aqueous solution

#### 1. Identification of the substance/preparation and of the company or firm

##### 1.1 Identification of the substance or preparation

Name:

Iron(III) Chloride 30% aqueous solution

**Synonym:**

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

##### 1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

##### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

##### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

#### 2. Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Met. Corr. 1

Acute Tox. 4

Skin Irrit. 2

Skin Sens. 1

Eye Dam. 1

## Hazard Pictograms



### Signal word

Danger

### Hazard statements

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

### Precautionary statements

P390 Absorb spillage to prevent material damage.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### Classification (67/548/CEE or 1999/45/CE).

<b>C</b> Corrosive	R34
<b>Xn</b> Harmful	R22
	R38
	R43
	R41

For the full text of the R-phrases mentioned in this section, see section 16.

## 3. Component Composition/Information

Name: Iron(III) Chloride 30% aqueous solution  
CAS [7705-08-0]  
EC number (EINECS): 231-729-4

### Composition:

#### 0001: Iron(III) Chloride 6-hydrate

Formula:  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$  M.= 270,30 CAS [10025-77-1]  
EC number (EINECS): 231-729-4

**Content:** 30 %

## Classification Regulation (CE) nº 1272/2008.

Met. Corr. 1  
Acute Tox. 4  
Skin Irrit. 2  
Skin Sens. 1  
Eye Dam. 1

### Hazard Pictograms



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### Classification (67/548/CEE or 1999/45/CE).

<b>C</b> Corrosive	<b>R34</b> Causes burns.
<b>Xn</b> Harmful	<b>R22</b> Harmful if swallowed.
	<b>R38</b> Irritating to skin.
	<b>R43</b> May cause sensitisation by skin contact.
	<b>R41</b> Risk of serious damage to eyes.

## 4. First aid

### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

### 4.2 Inhaling:

Take the person out into the fresh air.

### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

#### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open. Seek immediate medical assistance.

#### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek medical assistance.

### **5. Fire-fighting means**

#### **5.1 Suitable fire-extinguishing means:**

Atomized water. Carbon dioxide (CO<sub>2</sub>). Dry powder. Foam.

#### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

#### **5.3 Special risks:**

Incombustible. In the event of fire, toxic fumes may form: HCl (g)

#### **5.4 Protective equipment:**

Suitable clothing and footwear. Self-contained breathing equipment.

### **6. Measures to be taken in the event of accidental spillage**

#### **6.1 Individual precautions:**

Do not inhale the fumes. Avoid contact with the skin, eyes or clothing. Evacuate all non-essential personnel.

#### **6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods for collection/cleaning:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

### **7. Handling and storage**

#### **7.1 Handling:**

Ensure good ventilation and renewal of the air in the premises.

#### **7.2 Storage:**

Well sealed containers. In a cool, dry place, away from light and well ventilated. Room temperature.

### **8. Staff exposure/protection controls**

#### **8.1 Technical protective measures:**

Ensure good ventilation and renewal of the air in the premises. Do not inhale the fumes.

#### **8.2 Exposure limit control:**

: Data not available.,

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: liquid

Colour:

N/A

Granulometry: N/A

Odour: Odourless.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 1,3

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity:N/A

Dynamic viscosity:

N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

The product is chemically stable under standar ambient conditions (room temperature).

### **10.2 Matter which should be avoided:**

Alkaline metals. Metals. Strong bases.

### **10.3 Hazardous decomposition products:**

Hydrogen chloride.

### **10.4 Complementary information:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 316 mg/kg (referring to the anhydrous substance)

LD L0 oral rat : 900 mg/kg (referring to the anhydrous substance)

### **11.2 Dangerous effects for health:**

Can cause Irritations to the skin, eyes and mucosae. Through contact with the eyes: Serious injuries If swallowed: nausea, vomiting, gastro-intestinal disorders If it is absorbed in large quantities: cardiovascular disorders hepatic problems kidney problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

Fish (P. promelas) LC50 22 mg/l (96h)

Crustaceans (Daphnia magna) EC50 9,6 mg/l (48h)

### **12.2 Persistence and Degradability :**

Data not available.

### **12.3 Bioaccumulative potential:**

Non-bioaccumulable product.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other possible effects on the environment:**

Reacts with water.

Following reaction, HCl can form, which is lethal for fish as from 25 mg/l.

Data refer to the pure substance.

## **13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

### 13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

## 14. Information concerning transport

Overland (ADR):

Technical name: FERRIC CHLORIDE SOLUTION

UN 2582 Class: 8 Packaging group: III (E)

By sea (IMDG):

Technical name: FERRIC CHLORIDE SOLUTION

UN 2582 Class: 8 Packaging group: III

By air (ICAI-IATA):

Technical name: Ferric chloride solution

UN 2582 Class: 8 Packaging group: III

Packaging instructions: CAO 856 PAX 852

## 15. Regulatory information

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

## 16. Other information

### Other precautionary statements

### Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s): **R34** Causes burns.  
**R22** Harmful if swallowed.  
**R38** Irritating to skin.  
**R43** May cause sensitisation by skin contact.  
**R41** Risk of serious damage to eyes.

S-phrase(s): **S13** Keep away from food, drink and animal feedingstuffs.  
**S23** Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
**S24/25** Avoid contact with skin and eyes.  
**S39** Wear eye/face protection.

Version and revision date : 5 28.09.2012

Replaced: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 2

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.