



UNCHING INDUSTRY CO., LTD.

109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen, Samutsakhon 74110.

Tel: 02 - 810 - 1345 Fax: 02 - 810 - 1346

## SAFETY DATA SHEET

### FERRIC CHLORIDE 46 %

#### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** FERRIC CHLORIDE SOLUTION

**Company:** UNCHING INDUSTRY CO., TLD

109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen,  
Samutsakhon 74110

**Tel:** 02 - 810 - 1345

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#### 2. Hazards identification

##### GHS classification of the substance/mixture

##### Physical hazards

Corrosive to metals Category 1

##### Health hazards

Acute toxicity (Oral) Category 4

Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

##### Pictogram



##### Signal Word

**Danger**

##### Hazard Statement

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Precautionary statements**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P305 + P351 + P338 + P310 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER / doctor

P332 + P313 If skin irritation occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse.

P390 Absorb spillage to prevent material damage.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**

Product Name	CAS Numbers	Weight Percentage
FERRIC CHLORIDE	7705-08-0	46 %
FERROUS CHLORIDE	7758-94-3	0.5 %
HYDROCHLORIC ACID	7647-01-0	0.5 %
WATER	7732-18-5	53 %

**Molecular formula:**  $\text{FeCl}_3$

**Synonyms** Chlorure perrique (French) \* Flores martis \* Iron chloride \* Iron(III) chloride\*  
Iron trichloride \* Perchlorure de fer (French)

**4. First aid measures**

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

After swallowing: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

## 5. Fire-fighting measures

### Suitable extinguishing media:

In adaption to materials stored in the immediate neighbourhood.

### Special risks:

None

### Other information:

Non-combustible.

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## 6. Accidental release measures

**Personal precaution procedures to be followed in case of leak or spill** Evacuate area.

**Procedure (s) of personal precaution (s)** Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**Methods for cleaning up** Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

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## 7. Handling and storage

### Handling

#### Directions for Safe Handling

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

### Storage

**Conditions of Storage:** Keep tightly closed.

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## 8. Exposure controls/personal protection

### Personal protective equipment:

Respiratory protection: required when vapours/aerosols are generated.

Eye protection: required

Hand protection: required

Industrial hygiene: Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

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## 9. Physical and chemical properties

**Form:** liquid

**Colour:** brown

<b>pH value</b>		1 - 3
<b>Boiling</b>		not available
<b>Melting</b>		not available
<b>Ignition</b>		not available
<b>Specific Gravity</b>		1.48-1.53 g/cm <sup>3</sup>
<b>Flash point</b>		not available
<b>Explosion limits</b>	lower	not available
	upper	not available
<b>Solubility</b>	water	soluble

## 10. Stability and reactivity

### Conditions to be avoided

No information available

### Substances to be avoided

Metals, strong alkalis, alkali metals

### Hazardous decomposition products

No information available

## 11. Toxicological information

### Acute toxicity

LD<sub>50</sub> (oral, rat): 1872 mg/kg (calculated on the free base)

### Further toxicological information

After skin contact: Irritations.

After eye contact: Irritations.

**Other notes:** The following applies to soluble iron compounds.

After swallowing. Nausea and vomiting

The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

## 12. Ecological information

**Ecotoxic effects:** No special data.

**The following applies to dissolved iron compounds in general:**

Fish: toxic as from 0.9 mg/l at pH 6.5-7.5; lethal as from 1 mg/l at pH 5.5-6.7; 50 mg/l iron upper limit for fish life. When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms.

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### 13. Disposal considerations

Dispose of contents and container in accordance with local, regional, national, international regulations.

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### 14. Transport information

#### RID/ADR

UN No.: 2582

Class: 8

Packaging group: III

Correct technical name: FERRIC CHLORIDE SOLUTION

#### IMDG

UN No.: 2582

Class: 8

Packaging group: III

Correct technical name: FERRIC CHLORIDE SOLUTION

#### ICAO/IATA

UN No.: 2582

Class: 8

Packaging group: III

Correct technical name: FERRIC CHLORIDE SOLUTION

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### 15. Regulatory information

#### Labelling according to EC Directives

##### Indication of danger:

##### Corrosive

**R-phrases:** R 22-38-41 Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

**S-phrases:** S 26 27 36/37/39 In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

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## 16. Other information

### National Fire Protection Association:

Health hazard: 2

Fire hazard: 0

Reactivity: 0



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