



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

### FERROUS CHLORIDE (CORROSIVE LIQUID)

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

**Product name:** FERROUS CHLORIDE (CORROSIVE LIQUID)

**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

Serious eye damage/eye irritation

Category 1

##### Label elements



##### Signal word

**Danger**

##### Hazard statement

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

### Precautionary statements

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

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 or doctor.

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

P270 Do not eat, drink or smoke when using this product.

P264 Wash hands thoroughly after handling.

P391 Collect spillage.

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

P402 + P403 Store in a dry place. Store in a well-ventilated place.

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

### 3. Composition/information on ingredients

Product Name	CAS Numbers	Weight Percentage
FERROUS CHLORIDE	7758-94-3	30 %
HYDROCHLORIC ACID	7647-01-0	2 %
WATER	7732-18-5	68 %

**Molecular formula:**  $\text{FeCl}_2$

**Synonyms:** Ferrous chloride \* Iron dichloride\* Iron protochloride

### 4. First aid measures

**After inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**After skin contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**After eye contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**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

### Special risks:

**Specific Hazard(s):** Emits toxic fumes under fire conditions.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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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 breathe dust. 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

### Engineering controls

Safety shower and eye bath. Use only in a chemical fume hood.

### General hygiene measures

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

### Exposure limits - Norway

Source	Type	Value
	OEL	1 mg/m <sup>3</sup>

### Exposure limits - United Kingdom

Source	Type	Value
OEL	LTEL	1 mg (Fe)/m <sup>3</sup>
OEL	STEL	2 mg (Fe)/m <sup>3</sup>

**Personal protective equipment****Respiratory Protection:** Government approved respirator.**Hand Protection:** Compatible chemical-resistant gloves.**Eye Protection:** Chemical safety goggles.**9. Physical and chemical properties**

Colour:		Green Liquid
MP/MP Range		not available
Flash Point		not available
Flammability		not available
Vapor Pressure		not available
Specific Gravity		1.26 - 1.36 g/cm <sup>3</sup>
Decomposition Temp.		not available
Saturated Vapor Conc.		not available
pH		< 2
BP/BP Range		104° C (219° F)
Evaporation Rate		not available
Explosion limits	lower	not available
	upper	not available
Vapor Density		not available
Solubility	water	soluble

**10. Stability and reactivity****Hazardous decomposition products****Hazardous Decomposition Products:** Hydrogen chloride gas.**Hazardous Polymerization****Hazardous Polymerization:** Will not occur.**11. Toxicological information****Acute toxicity**

LD <sub>50</sub>	Oral	Rat	450 MG/KG
LD <sub>50</sub>	Intraperitoneal	Mouse	59 MG/KG

### Signs and symptoms of exposure

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Overdose of iron compounds may have a corrosive effect on the LD<sub>50</sub> (oral, rat): 1872 mg/kg (calculated on the free base) gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma.

### Route of exposure

**Skin Contact:** Causes burns.

**Skin Absorption:** May be harmful if absorbed through the skin.

**Eye Contact:** Causes burns.

**Inhalation:** Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.

**Ingestion:** Harmful if swallowed.

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## 12. Ecological information

No data available.

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## 13. Disposal considerations

### Substance disposal

Contact a licensed professional waste disposal service to dispose of this material.

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## 14. Transport information

**UN Number:** 3264

**Class:** 8

**Packaging group:** II

**Correct technical name:** Ferrous Chloride (CORROSIVE LIQUID)

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## 15. Regulatory information

### Labelling according to EC Directives

#### Indication of danger:

##### Corrosive

**R-phrases:** 22 34 Harmful if swallowed. Causes burns.

**S-phrases:** 26 36/37/39 45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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## 16. Other information

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UNCHING INDUSTRY CO.,LTD