



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 40 %

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

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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	40 %
FERROUS CHLORIDE	7758-94-3	0.5 %
HYDROCHLORIC ACID	7647-01-0	0.5 %
WATER	7732-18-5	59 %

Molecular formula: 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.

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.

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.

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.

9. Physical and chemical properties

Form: liquid

Colour: brown

pH value		1 - 3
Boiling		not available
Melting		not available
Ignition		not available
Specific Gravity		1.42-1.46 g/cm ³
Flash point		not available
Explosion limits	lower	not available
	upper	not available
Solubility	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

LD₅₀ (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.

13. Disposal considerations

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

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

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.

16. Other information

National Fire Protection Association:

Health hazard: 2

Fire hazard: 0

Reactivity: 0



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