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

Identification of the product
Iron(III) chloride hexahydrate
Manufacturer/supplier identification
Company: Guangdong Guanghua Sci-Tech Co.,Ltd
Address: No.295 Daxue Road,Shantou
PostCode:515000
E-mail: export@ghtech.com
Emergency telephone No.: +86-754-82515813.
Fax No.: +86-754-88221999

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Corrosive to metals (Category 1)

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 5)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 2)

Label elements
Pictogram

Signal word Danger

Hazard statement(s)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H313	Maybe causes skin irritation.
H314	Causes serious skin and eye damage.
H401	Toxic to aquatic life.

Precautionary statement(s)

P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements
none

3. Composition/information on ingredients

Synonyms
Iron(III) chloride hexahydrate
CAS-No.: 10025-77-1
M: 270.29 g/mol
Molecular formula: $FeCl_3 \cdot 6H_2O$

4. First aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls and personal protection

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. Physical and chemical properties

Form: solid
Colour: yellow
Odour: not available
pH value: not available
Melting point: 37 °C
Boiling point: not available
Ignition temperature: not available
Flash point: not available
Autoignition temperature: not available
Explosion limits
lower: not available
upper: not available
Density (25 °C) : 2.800 g/cm^3
Bulk density: not available
Solubility in
water (20 °C) : not available
diluted acids (20 °C) : not available
Thermal decomposition: not available

10. Stability and reactivity

Chemical stability
no data available

Conditions to avoid
Exposure to moisture.

Materials to avoid

Alkali metals, Ethylene oxide , Mild steel Metals

Hazardous decomposition products
Other decomposition products - no data available

11. Toxicological information

Acute toxicity
LD50 Oral - Mouse - 1,300 mg/kg
LD50 Dermal - Rat - > 2,000 mg/kg

Skin corrosion/irritation
Skin - Rat - Irritation.

Serious eye damage/eye irritation
Eye - Rat - Serious irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

12. Ecological information

Toxicity
LC50 - Pimephales promelas - 21.84 mg/l - 96h
EC50 - Daphnia magna - 9.6 mg/l - 48 h

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
No data available

Other adverse effects
Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. Transport information

ADR/RID
UN-Number:3260 Class: 8 Packing group: III
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron trichloride hexahydrat

IMDG
UN-Number:3260 Class: 8 Packing group: III
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron trichloride hexahydrate)
Marine pollutant: yes

IATA
UN-Number:3260 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Iron trichloride hexahydrate)

15. Regulatory information

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

16. Other information

General update.
Regional representation:
This information is given on the authorised Safety Data Sheet for your country.