

SAFETY DATA SHEET

FERRIC CHLORIDE HEXAHYDRATE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME FERRIC CHLORIDE HEXAHYDRATE
PRODUCT NO. EFCC250G/ 30K
SUPPLIER ELECTROLUBE. A division of HK
WENTWORTH LTD
KINGSBURY PARK, MIDLAND ROAD
SWADLINCOTE
DERBYSHIRE, DE11 0AN
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2 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|---------------------------------|-----------|-----------|---------|----------------|
| Iron (III) chloride hexahydrate | 231-729-4 | 7705-08-0 | 60-100% | Xn;R22. C;R34. |

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

3 HAZARDS IDENTIFICATION

Harmful if swallowed. Causes burns.

CLASSIFICATION Xn;R22. C;R34.

4 FIRST-AID MEASURES

INHALATION

Not relevant.

INGESTION

DO NOT INDUCE VOMITING! Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Rinse mouth thoroughly. Get medical attention immediately!

SKIN CONTACT

Important to remove the substance from the skin immediately. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing. Chemical burns must be treated by a physician.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

DO NOT TOUCH SPILLED MATERIAL! Wear necessary protective equipment. Collect and reclaim or dispose in sealed containers in licensed waste. Flush area with plenty of water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

FERRIC CHLORIDE HEXAHYDRATE**ENGINEERING MEASURES**

No particular ventilation requirements.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. Wear respirator if there is dust formation.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------|--------------------------|
| APPEARANCE | Solid |
| COLOUR | Amber |
| ODOUR | No characteristic odour. |
| SOLUBILITY | Soluble in water |
| RELATIVE DENSITY | 1.66 |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Vapours/gases/fumes of: Hydrogen chloride (HCl). Chlorine.

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause irritation to the respiratory system.

INGESTION

May cause burns in mucous membranes, throat, oesophagus and stomach.

SKIN CONTACT

Prolonged or repeated exposure may cause severe irritation. May cause serious chemical burns of the skin.

EYE CONTACT

Causes burns.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



FERRIC CHLORIDE HEXAHYDRATE

| | | | |
|----------------------|--------------------------------|------------------|--------------|
| UK ROAD CLASS | 8 | | |
| PROPER SHIPPING NAME | FERRIC CHLORIDE, ANHYDROUS | | |
| UK ROAD PACK GR. | III | ADR CLASS NO. | 8 |
| ADR CLASS | Class 8: Corrosive substances. | ADR PACK GROUP | III |
| HAZARD No. (ADR) | 80 | ADR LABEL NO. | 8 |
| HAZCHEM CODE | 2X | CEFIC TEC(R) NO. | 80GC2-II+III |
| RID CLASS NO. | 8 | RID PACK GROUP | III |
| UN NO. SEA | 1773 | IMDG CLASS | 8 |
| IMDG PACK GR. | III | EMS | F-A; S-B |
| MFAG | See Guide | MARINE POLLUTANT | No. |
| UN NO. AIR | 1773 | ICAO CLASS | 8 |
| AIR PACK GR. | III | | |

15 REGULATORY INFORMATION

LABELLING



Corrosive



Harmful

CONTAINS

Iron (III) chloride hexahydrate

RISK PHRASES

R22 Harmful if swallowed.
R34 Causes burns.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S24/25 Avoid contact with skin and eyes.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

GENERAL INFORMATION

CN No 28273300

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Helen O'Reilly

REVISION DATE SEPTEMBER 2005

REV. NO./REPL. SDS GENERATED 3

SDS NO. 10366

RISK PHRASES IN FULL

R22 Harmful if swallowed.
R34 Causes burns.

FERRIC CHLORIDE HEXAHYDRATE

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.