

SAFETY DATA SHEET

Ferric Chloride Hexahydrate Crystals

(Parts: 600-011, 600-012, 600-013 and 600-017)



1. IDENTIFICATION OF SUBSTANCE AND COMPANY

TRADE NAME Ferric Chloride Hexahydrate Crystals

Producer/Distributor	Kepets GmbH	Mega Electronics Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

No	Ingredient name	EC No:	CAS No:	Conc.(wt%)	Classification:
1	Ferric Chloride Hexahydrate	231-729-4	10025-77	100%	Xn, R36/39

Legend: T+ = Very toxic, T= Toxic, C+ = Corrosive, Xn+ Harmful, Xi= Irritant, E= Explosive, O= Oxidising, F+ = Extremely Flammable, F= High Flammable, N= Dangerous for the environment

3. HAZARDS IDENTIFICATION

Classified as Harmful: May be corrosive to mucous membranes, eyes and skin. Its effects are similar to those of any caustic substance. the estimated one time lethal dose for 70 kg man is 30g.

4. FIRST AID MEASURES

GENERAL INFO. Remove affected person from source of contamination. Get medical attention if discomfort continues.

INHALATION Move to fresh air and keep at rest. If recovery is not rapid, seek medical attention.

SKIN CONTACT Remove contaminated clothing. Wash affected area with soap and water. If irritation occurs and persists, seek medical attention.

EYE CONTACT Flush with water for 15 minutes. Seek medical attention

INGESTION Rinse mouth out with water. Do not induce vomiting. Seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA Non-Flammable so no limitations

FIRE & EXPLOSION HAZARDS N/A

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Normal good room ventilation should be sufficient.

ENVIRONMENTAL PRECAUTIONS Avoid entry into drains & waterways

METHODS FOR CLEANING UP Sweep and gather product; avoid generation of dust.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Preferably handle in confined spaces. If using large quantities, use non corrosive equipment.

HANDLING ADVICE: Use personal protective equipment as specified in Section 8.

STORAGE: Store in plastic containers. Keep in a well-ventilated area, away from re-active substances.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES Normal good room ventilation should be sufficient.

HAND PROTECTION Wear Protective Rubber Gloves.

EYE PROTECTION Wear Protective Glasses.

SKIN PROTECTION Wear Protective Coveralls

HYGIENIC MEASURES

9. PHYSICAL AND CHEMICALS PROPERTIES

Physical State:	Crystals	Colour:	Yellow / Brown
Odour:	No characteristic odour	Oxidising Properties:	Strong Oxidiser
Melting Point / range:	0-37°C	Relative Density:	1.50g / Cm ³
Expl. limit LEL-UEL%:		Solubility in water	920g/L at 20°C
Vapour Pressure:		Insolubility in Alcohol	Ether & Acetone
Thermal Decomposition temp:	1-160° C	Rel. dens. sat. air (air= 1)	1.66
pH Solution		Boiling point / range	280°C-285°C
Flash Point	N/A	pH-VALUE, CONC. SOLUTION	13.5

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID

None

MATERIAL TO AVOID

Solutions of ferric chloride act as an acid and are powerful oxidising agents, dissolving the majority of metals (cu, ni, sn, pb, mn, fe, co,) INCLUDE DI AND HCl

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERISATION WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

INHALATION

Irritation of nose and throat. Coughing and difficulty breathing after prolonged or repeated exposure ulceration of the nose and brown staining of the teeth.

SKIN CONTACT

Irritation when in contact with damp skin, risk of burns, risk of dermatitis after repeated contact. Persistent pigmentation of skin on repeated contact.

EYE CONTACT

IRRITATION, TEARING, REDNESS, RISK OF BURNS.

INGESTION

Low probability of risk due to acrid taste irritation and burns to mouth, throat and stomach. Nausea, vomiting, stomach cramps and diarrhoea. Risk of shock.

Ld50 (oral human): 30g / 70kg (est.) Ld50 (oral rat): 900mg / kg.

Ld50 (oral mouse): 440mg / kg.

12. ECOLOGICAL INFORMATION

TOXICITY

Possible environmental effects and behaviour/ODP/aquatic toxicity.

EC50 (DAPHNIA): 7.3mg / l (iron) LC50 (FISH): 26mg / l (iron)

ODP: N.A. - No other data available.

MOBILITY

N/A

13. DISPOSAL INFORMATION

GENERAL REGULATIONS

Safe disposal of product, its residues and packaging materials:
In accordance with local regulations via licensed contractor.
May be neutralised to neutral ph. Dispose in a controlled landfill site.
See also Sections 7 & 8 for handling precautions and personal protection where applicable.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods Yes ☐ No ☒ Not applicable ☐

GENERAL: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

ADR/RID:	Class		Packing Group:		Not translated:		Hazard id:
IMDG:	Class		Packing Group:		Sub Risk: EMS:		Marine Pollutant: NO
IATA:	Class		Packing Group:		Sub Risk: Label:		

15. REGULATORY INFORMATION

R-PHRASES

R36 / 39

Irritating To Eyes & Skin.

S-PHRASES

S26

In Case Of Contact With Eyes, Rinse Immediately With Plenty Of Water and Seek Medical Advice.

S/26/37/39

Wear suitable protective clothing, gloves and eye / face protection

UK REGULATORY REFERENCES Health and Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

GUIDANCE NOTES Workplace Exposure Limits EH40.

16. OTHER INFORMATION

INFORMATION SOURCES:

This safety data sheet has been prepared on the basis of information given by raw material suppliers

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DISCLAIMER

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