

AguaChem

SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

Product Identifier

Product name	Ferric Chloride Solution
Recommended use	Coagulant for waste water treatment
Recommended restrictions	None
Supplier:	AguaChem Ltd Redwither Business Park Redwither Business Centre Wrexham, LL13 9XR
Emergency telephone:	01978 664077

2. HAZARD IDENTIFICATION

Physical hazards	Corrosive to metals	Category 1
Health hazards	Acute toxicity	Category 4
	Skin corrosion/irritation	Category 2
	Eye damage/irritation	Category 1
Environmental hazards	Hazardous to aquatic Environment	Category 2

Label elements



Signal word

Danger

Hazard statements

H290 May be corrosive to metals

H302 Harmful if swallowed

H318 Causes serious eye damage

Precautionary statements

P234 Keep only in original container

P264 Wash skin thoroughly after handling

P2880 Wear protective gloves/eye protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%
Water	7732-18-5	58-62
Ferric chloride	7705-08-0	38-42
Hydrochloric acid	7647-01-0	1-2

4. FIRST AID MEASURES

Inhalation:

Remove from exposure

Skin contact:

Remove any contaminated clothing, wash skin with water. Staining of the skin will occur which over time is sweated and exfoliated. If symptoms (irritation) occurs, seek medical attention

Eye contact:

Irrigate the eye with water for 15 minutes. If there is any irritation, seek medical attention

Ingestion:

Do not make the casualty vomit. If conscious give plenty of water to drink followed by milk of magnesia

If unconscious do not give anything by mouth, place in the recovery position and obtain medical attention.

Most important symptoms/
effects, acute and delayed

Corrosive effects. Symptoms include itching, burning, redness and tearing of the eyes

Indication of immediate medical
attention and special treatment
needed

Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing media	Dry chemical foam, carbon dioxide
Special hazards arising from the substance or mixture	Fire may produce corrosive or toxic gases
Advice for fire-fighters	Wear full protective clothing and breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure	Use personal protective equipment. Avoid contact with skin and eyes
Environmental precautions:	Do not flush into surface water or sanitary sewer system
Method and material for containment and cleaning up	Soak up with an inert absorbent material. Sweep up and shovel into suitable containers for disposal

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Do not drink, eat or smoke whilst handling this product
Conditions for safe storage including any incompatibilities	Store in original corrosive resistant container

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal protection equipment.	
Hand protection:	Rubber or plastic gloves.
Eye protection:	Tightly fitting protective goggles.
Skin and body protection:	Full protective clothing and boots.
Occupational exposure limits:	TWA 1mg/m ³ for iron salts, STEL: 2mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Dark Brown, slightly opaque
Form:	Liquid
Odour:	Slight
pH as supplied :	< pH 2
Boiling point range:	105°C
Freezing point range:	Freezing starts at -2°C
Flash point:	N/A
Specific gravity:	1.35 - 1.45 g/ml
Water solubility:	Completely miscible
Other data:	N/A

10. STABILITY AND REACTIVITY

Reactivity	Product is non-reactive
Stability	Stable
Possibility of hazardous reactions	Hazardous polymerisation does not occur
Condition to avoid	Contact with metals. Avoid high temperatures
Incompatible materials	Alkalis, strong oxidizing agents, stainless steel and metals
Hazardous decomposition products	Thermal decomposition causes the release of toxic gases

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- On eyes:	Eyes smart
- On skin:	Corrosive substance, leaves a brown staining
- By skin absorption:	Brown staining
- By ingestion:	In large quantities, then spots and other symptoms may occur as a result of an iron rich blood system
- By inhalation:	Corrosive to mucous membranes

Information on toxicological properties

Oral	LD50 984mg/kg (rat)
Inhalation	Irritating to the respiratory system
Dermal	No data available

CMR effects

Carcinogenicity	No data available
Mutagenicity	No data available
Reproductive toxicity	No data available

Specific target organ toxicity

Single exposure	No data available
Repeated exposure	No data available

12. ECOLOGICAL INFORMATION

Toxicity

Fish	LC50: 20.95mg/l (rainbow trout)
Algae	Toxic to algae

Persistence and degradability

Biodegradability	Slowly biodegradable
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Bioaccumulation potential	Completely soluble
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Mobility in soil	This product is water soluble and may disperse in soil
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Results of PBT and vPvB assessment

PBT	No further relevant information available
vPvB	No further relevant information available

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose waste in accordance with local regulations
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Uncleaned packaging	Empty packaging thoroughly and dispose of waste as above
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European waste catalogue number	Not assigned as use dictates the assignment
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14. TRANSPORT INFORMATION

UN Number	2582
UN Proper shipping name	Corrosive liquid, n.o.s. (ferrous chloride)
Transport hazard class(es)	
ADR Class	8
Packing Group	III
Labels	8
RID Class	8
IMDG Class	8
Environmental hazards	Marine pollutant
Special precautions for users	Not applicable
Transport in bulk according to annex II of Marpol73/78 and the IBC code	

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

16. OTHER INFORMATION

Risk Phrases

R22 Harmful if swallowed

R34 Causes burns

R38 Irritating to skin

Safety phrases

S26 - in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S37/39 - wear suitable gloves and eye protection

Disclaimer

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

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