

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Section 1: Identification of the substance and company

Product Name: Ferric Sulphate Solution 12%

Chemical Name: Iron (III) Sulphate, Liquid

Company Identification

Acorn Water Ltd
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Co. Cork
Rep. Of Ireland
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Emergency Tel No: +353 23 88 43466

MSDS NO: 1509
CAS NO: 10028-22-5
EINECS NO: 233-072-9
Revision No: 02
Revision Date: 29/09/09
Supercedes:01
Health & Safety Manager: A. Holland
REACH Reg No.150605

Section 2: Hazards Information

Most Important Hazard:
Risk Phrases:

Irritant
No Labelling Information Prescribed óAcorn Water
recommend The Use Of The Following Phrases.
R36/38 Irritating To Eyes And Skin

Safety Phrases:

S2- Keep out Of Reach Of Children
S26- In Case Of Contact With Skin Wash
Immediately With Plenty Of Water And
Seek Medical Advice.
S24/25- Avoid Contact With Skin And Eyes

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Section 3: Composition/Information on ingredients

Common Chemical Name:	Ferric Sulphate Solution
Chemical Family:	Solution of Inorganic Iron Salt In Water
CAS Name & Number:	10028-22-5
Ingredients Contributing To The Hazard:	Ferric Sulphate

Section 4: First Aid Measures

Eye Contact:	Wash Immediately With Copious Amounts Of Water. Seek Medical Attention
Skin Contact:	Wash With Water Using Soap Or Mild Detergent. Seek Medical Attention If Soreness Or Discomfort Persists.
Inhalation:	Seek Medical Advice
Ingestion:	Do Not Induce Vomiting Seek Medical Advice
Note For Doctors:	Treat Symptomatically No Special Treatment Measures Advised.

Section 5: Fire fighting measures

Extinguishing Media:	Ferric Sulphate Solution Is Non Flammable.
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Section 6: Accidental release measures

Personnel Precautions:	Wear Protective Clothing. See Exposure Controls/Person Protection (Section 8).
Environmental Precautions:	If Spillage Or Contaminated Washings Cause Contamination Of Water Courses, Drains Or Vegetation Inform Relevant Authorities.
Methods For Cleaning Up	Small Spillages ó Dilute/Flush Away To Drain Large Spillages - Contain With Sand Or Earth. If Possible Collect Into An Emergency Tank Otherwise Absorb Spillage In Vermiculite Or Sans. Dispose Of Using Licensed Contractors In Accordance With Waste Disposal Regulations Collect And Treat All Water Used In The Clean Up-See Environmental Precautions

Section 7: Handling and Storage

Handling:	Wear Protective Clothing Have Available Wash Water, Safety Showers And Eyewash Bottles In Order To Deal With Splashes/Spillages.
Storage:	Store Ferric Sulphate In Closed Vessels. Tanks Must Be Of Acid Resistant Material Or Lined With Acid Resistant Compounds. Ferric Sulphate Decomposes Becomes Unstable On Exposure To Light.
Materials: Unsuitable:	Most Common Metals Especially Mild Steel Copper And Its Alloys Zinc Silver
Suitable:	Stainless steel Rubber Lined Mild Steel Lead Glass Fibre Glass PVC

Section 8: Exposure Controls/Personal Protection

Personal Protective Equipment	PVC Suit PVC Gloves Chemical Resistant Boots Eye Protection óGoggles
Occupational Exposure Limits:	TWA: 1mg/M ³ For Iron Salts As Fe STEL: 2mg/M ³ EH40-1993
Installation Control:	See Handling And Storage (Section 7)

Section 9: Physical and Chemical properties

Appearance:	Reddish Brown Liquid
Specific Gravity:	1.530 ± 0.01 @ 15°C
Odour:	Slight Characteristic Iron Salts Odour
Solubility (in water):	Dilutable down to a mass fraction of 1% of Fe ₂ (SO ₄) ₃
Boiling Point °C	Higher than 100°C
Freezing point	Lower than -15°C
Specific Heat	Not known
Critical temperature	N/A
Vapour Pressure At °C	Not known
Flash Point:	Not Applicable
Flammability:	Not Applicable
Auto Flammability	Not Applicable

Section 10: Stability and Reactivity

Stability:	Ferric Sulphate Will Become Unstable On Exposure To Light
Conditions To Avoid:	See Handling And Storage (Section 7)
Materials To Avoid:	
Water:	Completely Soluble In Water
Air:	No Reaction
Acids:	Not Necessary To Avoid
Bases/Alkalis:	Incompatible With Bases Inorganic Alkalis
Oxidizing Agents:	Not Necessary To Avoid
Other Chemicals:	Specifically Incompatible With Arsenic Trioxide Attacks Most Metals Liberating Flammable Hydrogen Gas
Hazardous Decomposition Products	When Heated To Decomposition Toxic Of SO _x Could Be Emitted

Section 11: Toxicological Information

Effects Of Substance:	
On Eyes:	Immediate Irritation Could Cause Severe Damage with Possible Permanent Visual Defects
On Skin:	Irritation After Prolonged Contact With Skin With Possible Development Of Dermatitis
By Skin Absorption:	Possible Development Of Dermatitis
By Ingestion:	Very Astringent To Mouth Nose and Throat
When Inhaled (Acute Effect)	No Data
When Inhaled (Chronic Effect)	No Data

Section 12: Ecological Information

Although There Is No Toxicity Data Available It Is Reasonable To Assume That Ferric Sulphate In Sufficient Quantities Will Affect Aquatic Like Forms. Care Should Be Taken In Water Treatment Not To Overdose The System.

Section 13: Disposal Considerations

Spillages:	Wear Full Protective Clothing See Exposure Controls/Personal Protection (Section 8).
Waste:	See Accidental Releases Measure (Section 6) Dispose of Ferric Sulphate Or Materials Contaminated With Ferric Sulphate Using A Licensed Contractor In Accordance With Waste Disposal Regulations

Section 14: Transport Information

UN 3264, Corrosive liquid, inorganic, acidic, N.O.S, (contains Iron (III) Sulphate), 8, I

ADR/RID Classification:	Class 8; classification code C9; packing group I
IMDG Classification:	Class 8; packing group I; IMDG page 8134
IATA Classification;	Class 8; packing group I

Section 15: Regulatory Information

Label Information:

Hazard Symbol:	C ó Corrosive
Risk Phrases:	R 36/38: Irritating to eyes and skin
Safety Phrases:	S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice ; S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Relevant Statutory Instruments:

1906	Alkali Etc Works Regulation Act And Amendments
1961	Factories Act And Amendments
SI1988/1657	Control Of Substance Hazardous To Health Regulations
SI1990/304	The Dangerous Substance (Notification And Marking Of Sites) Regulations
SI 1992/742	Road Traffic (Carriage Of Dangerous Substance In Packages Etc) Regulations

SI 1992/743

The Road Traffic (Carriage of dangerous Substance In Road Tankers And Tank Containers) Regulations

SI 1993/1746

The Chemicals (Hazard Information And Packaging) Regulations.

Section 16: Other Information

Ferric Sulphate is recommended as a water treatment chemical.

The information, provided in this Safety Data Sheet, is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The 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 unless specified in the text.

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