


1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Ferric Sulphate Solution 70% w/v (40-45% w/w)
Synonyms:	Industrial Grade Ferric Sulphate Solution, Technical Grade Ferric Sulphate Solution, Ferric Sulfate 70% w/v (40-45% w/w); Ferric sulphate solution; Iron (III) sulphate solution.
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (CONTAINS FERRIC SULPHATE)
Uses and uses advised against	Flocculation, arsenic scavenging, phosphate removal, waste water treatment
Supplier:	COOGEE CHEMICALS PTY LTD
Address:	Cnr of Patterson and Kwinana Beach Roads, Kwinana WA, Australia
Telephone Number:	+61 8 9439 8200
Facsimile:	+61 8 9439 8300
Email	businessrelations@coogee.com.au
Website	www.coogee.com.au
Emergency Telephone:	1800 800 655 (24hrs)

2. HAZARDS IDENTIFICATION

Classified as HAZARDOUS CHEMICAL and DANGEROUS GOODS according to the SafeWork Australia criteria and the Australian Dangerous Goods Code.

Physical Hazards	Corrosive to Metals - Category 1
Health Hazards	Skin Corrosion - Sub-category 1B Eye Damage - Category 1
Environmental Hazards	Not classified as an Environmental Hazard
GHS Label Elements	
Signal Word	DANGER
Hazard Pictogram	
Hazard Statements	H302 Harmful if Swallowed H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Prevention Statements	P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response Statements	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment is advised - see first aid instructions. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.



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Storage Statements	P405 Store locked up. P406 Store in corrosive resistant container with a resistant inner liner.
Disposal Statements	P501 Dispose of contents/container in accordance with relevant regulations.
Other	No other information provided

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	EC Number	Proportion (w/w)
Ferric sulphate	10028-22-5	233-072-9	40-45%
Sulphuric acid	7664-93-9	231-639-5	<3%
Other non-hazardous components	-	-	balance

4. FIRST AID MEASURES

Inhalation	Remove victim from contaminated area - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Apply artificial respiration if not breathing. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible.
Skin Contact	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Eye Contact	Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre.
Ingestion	Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance, do not induce vomiting

Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Not combustible, however, if material is involved in a fire use extinguishing agent suitable for the surrounding fire
Hazchem or Emergency Action Code	2X 2 Fine Water Spray. X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.
Specific hazards arising from the chemical	Non-combustible material. When heated to decomposition may evolve oxides of sulfur.
Special protective equipment and precautions for fire-fighters	Decomposes on heating, emitting toxic fumes. Treat as per requirements for surrounding fires. If safe to do so, remove containers from path of fire. Wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions	Clear area of all unprotected personnel. Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.
Personal precautions/Protective	Prevent product from entering drains and waterways. Use absorbent (soil, sand or other inert material).



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equipment/Methods and materials for containment and cleaning up Collect and seal in properly labelled containers for disposal. Neutralise residues with lime or soda ash.

7. HANDLING AND STORAGE

Precautions for safe handling:

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing of hands before eating. Prevent eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place away from incompatible foodstuffs, ignition or heat sources. Do not allow to freeze. Store in stainless steel, plastic or epoxy lined vessels. Store away from incompatible materials. Do not store in aluminium containers. Do not store in copper or copper alloy containers. Do not store in mild steel containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure standards

Material Name	Reference	TWA	STEL	Peak
Iron salts, soluble (as Fe):	Australia Workplace Exposure Standards	1mg/m ³	Not available	-
Sulphuric acid	Australia Workplace Exposure Standards	1mg/m ³	3mg/m ³	-

Biological Limits

No biological limit values have been assigned for this product.

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE **Eye / Face** Wear splash-proof goggles.
Hand / Skin Wear PVC or rubber gloves.
Body Wear overalls. When using large quantities or where heavy contamination is likely, wear a PVC apron and PVC boot

Respiratory Where an inhalation risk exists, wear a Type E (Sulphur dioxides, acidic gasses and vapours) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark red-brown liquid
Physical state	Liquid
Colour	Dark red-brown-black
Odour	Odourless
Specific Gravity	1.5-1.7
pH	<2
Boiling point	112°C
Melting point	-18°C
Relative Vapour Density (air=1)	Not available
Vapour Pressure (20 °C)	Not available
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not applicable
Autoignition Temperature (°C):	Not applicable

10. STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals. Reacts with alkalis.
Chemical stability: Stable under recommended conditions of storage.



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Possibility of hazardous reactions:	Polymerisation will not occur.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources
Incompatible materials:	Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and some metals.
Hazardous decomposition products:	Oxides of sulfur and iron.

11. TOXICOLOGICAL INFORMATION

Ingestion	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye contact	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
Skin contact	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Occupational exposure to strong inorganic acid mists containing sulphuric acid is classified as carcinogenic to humans (IARC Group 1).
Reproductive	Not classified as a reproductive toxin.

12. ECOLOGICAL INFORMATION

Toxicity	No information provided.
Persistence and degradability	No information provided.
Bio-accumulative potential	No information provided.
Mobility in soil	No information provided.
Other adverse effects	No information provided.

13. DISPOSAL CONSIDERATIONS

Disposal methods Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.



UN No	3264
Transport Hazard Class	8 Corrosive
Packing Group	II
Proper Shipping Name or Technical Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS FERRIC SULPHATE)
Hazchem or Emergency Action Code	2X

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS

UN No	3264
Transport Hazard Class	8 Corrosive
Packing Group	II
IMDG EMS Fire	F-A
IMDG EMS Spill	S-B



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Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No 3264
Transport Hazard Class 8 Corrosive
Packing Group II
Proper Shipping Name or Technical Name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS FERRIC SULPHATE)

15. REGULATORY INFORMATION

Classification	This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.
Classification of the chemical	Corrosive to Metals - Category 1 Skin Corrosion - Sub-category 1B Eye Damage - Category 1
Hazard Statement(s)	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Poisons Schedule (SUSMP)	S6 Poison.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Initial Date: 06/02/2020
Revision Date: 06/02/2020

This safety data sheet has been prepared by Coogee Chemicals Pty Ltd

This SDS, to the best of our knowledge, represents the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Users must, prior to usage, assess and control the risks arising from their specific use, handling and storage of the material.