CANNING POOL & PUMP CENTRE

SAFETY DATA SHEET

According to Safe Work Australia

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: FERRIC SULFATE SOLUTION

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:
Flocculant in the treatment of sewerage, waste water and drinking water.

Details of Manufacturer or Importer:
Canning Laboratories Pty. Ltd.
Unit 4 / 213 Railway Avenue
Kelmscott WA 6111
Phone Number: 08 9390 7040

Emergency telephone number: 0410467404

2 . HAZARDS IDENTIFICATION

Hazardous Nature:
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).


corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Acute Tox. 4 H302 Harmful if swallowed.

Signal Word Danger

Hazard Statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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/doctor.
P321	Specific treatment (see on this label).
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P363	Wash contaminated clothing before reuse.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

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3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

10028-22-5	Ferric sulfate Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	>40%

4 . FIRST AID MEASURES

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact:
In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:
In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention.

Ingestion:
If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:
Inhalation: May cause respiratory irritation, coughing, choking, dizziness, headache, nausea, weakness, tightness of chest and shortness of breath.
Skin Contact: Causes severe skin burns.
Eye Contact: Causes severe eye damage. Vapours and mists may be extremely irritating, causing pain, tears and light sensitivity. May cause severe burns and possible blindness.
Ingestion: Harmful if swallowed. May cause burns to mouth and throat, gastrointestinal irritation and ulceration, vomiting, low blood pressure, fluctuating pulse and shallow breathing.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemical powder or BCF (where regulations permit).

Specific Hazards Arising from the Chemical:
Hazardous combustion products include sulphur oxides.
May evolve flammable hydrogen gas in contact with some metals.
Non flammable.
To avoid violent reaction, ALWAYS add material to water and NEVER water to material.

Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:
In the event of a major spill, prevent spillage from entering drains or water courses.

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Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Avoid using sawdust or cellulose. Collect the spilled material and place into a suitable container for disposal. Wash with plenty of water. Neutralise with soda ash or lime.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.
Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:
Store in a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Protect from exposure to light, moisture, heat, sparks, open flames and other sources of ignition. Keep away from alkalis, peroxides, borohydrides, cyanoborohydrides and some metals. Protect from physical damage. Check regularly for leaks or spills.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

10028-22-5 Ferric sulfate

NES	TWA: 1 mg/m³ as Fe

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Respiratory Protection:
Use an approved air purifying or air-fed respirator if high airborne concentrations of the material are present and minimising exposure by ventilation is not possible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Liquid
Colour:	Dark red-brown
Odour:	Odourless
Odour Threshold:	No information available

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pH-Value:	1
Melting point/Melting range:	-18 °C
Initial Boiling Point/Boiling Range:	112 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	No information available
Relative Density at 20 °C:	1.605-1.62
Vapour Density:	As water
Evaporation Rate:	As water
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available
% Volatiles by Volume:	~55 %

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: No information available

Incompatible Materials: Alkalis, peroxides, borohydrides, cyanoborohydrides and some metals.

Hazardous Decomposition Products: Sulphur oxides.

11 . TOXICOLOGICAL INFORMATION

Toxicity:
LD_{50}/LC_{50} Values Relevant for Classification: No information available

Acute Health Effects
Inhalation:
May cause respiratory irritation, coughing, choking, dizziness, headache, nausea, weakness, tightness of chest and shortness of breath.
Skin: Causes severe skin burns.
Eye:
Causes severe eye damage. Vapours and mists may be extremelt irritating, causeing pain, tears and light sensitivity. May cause severe burns and possible blindness.
Ingestion:
Harmful if swallowed. May cause burns to mouth and throat, gastrointestinal irritation and ulceration, vomiting, low blood pressure, fluctuating pulse and shallow breathing.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

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Specific Target Organ Toxicity (STOT) - Single Exposure:
Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:
Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:
Repeated or prolonged exposure may cause errosion of teeth, inflammation of the mouth, coughing, wheezing, pneumonia, dermatitis and conjunctivitis. May cause damage to the liver and pancreas.

Existing Conditions Aggravated by Exposure: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No information available

Aquatic toxicity: No information available

Persistence and Degradability: No information available

Bioaccumulative Potential: The product has low potential for bioaccumulation.

Mobility in Soil: No information available
Other adverse effects: No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:
Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number	
ADG, IMDG, IATA	UN3264
Proper Shipping Name	
ADG	3264 CORROSIVE LIQUID. ACIDIC, INORGANIC, N.O.S.
IMDG, IATA	CORROSIVE LIQUID. ACIDIC, INORGANIC, N.O.S.
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Packing Group:	
ADG, IMDG, IATA	III
Marine pollutant:	No
EMS Number:	F-A,S-B
Hazchem Code:	2X
Special Provisions:	223, 274
Limited Quantities:	5 L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	No information available

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Portable Tanks & Bulk Containers - Instructions: T7

Portable Tanks & Bulk Containers - Special Provisions: TP1, TP28

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7732-18-5	Water
10028-22-5	Ferric sulfate

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Not a scheduled poison.

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 23.07.2015

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC_{50}: Lethal concentration, 50 percent
LD_{50}: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer
This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"
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