AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: February 2022
Version No: 6

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ORP Solution 700 mV
Product Code: 3347
Other Names: Nil
Uses: Laboratory Reagent

Supplier: Australian Chemical Reagents
38-50 Bedford Street Gillman SA 5013

Contacts: Telephone: 61 08 8440 2000
Fax: 61 08 8400 2001
Emergency Phone: 61 08 8440 2000 (Mon-Fri 8.30am – 5.00pm)

2. HAZARDS INFORMATION

Hazard classification: Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Ferric nitrate	[10421-48-4]	<5%
Ammonium ferrous sulphate	[10045-89-3]	<1%
Other non hazardous ingredients	-	to 100%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

Swallowed :
If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.

Eye :
Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

Skin :
Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this SDS to medical practitioner. Launder clothing before reuse.

Inhaled :
Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Hazards From Combustion Products:
Decomposition products include oxides of nitrogen and sulphur
Precautions For Fire Fighters and Special Protective Equipment:
Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:
Prevent from entering waterways. Restrict access to area. Ventilate area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and clean up:
Use inert material such as sand or earth to contain spill or leak Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:
Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
Conditions for Safe Storage:
Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:
SWA – Iron salts soluble as Fe – 1 mg/m^3

Biological Limit Values: No data available.

Engineering Controls:
Not required with normal use.

Personal Protective Equipment (PPE):
The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Orange brown liquid
Odour:	Nil
pH:	Approx 1 **-** 2
Boiling Point (^{0}C) :	100
Freezing/melting Point:	0
Vapour Pressure (mm of Hg @ 25^{0}C) :	25
Vapour Density:	Not applicable
Specific Gravity :	1
Flash Point (^{0}C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Conditions to avoid:
Excessive heat. Sunlight
Incompatible materials:
Alkalis, Hypochlorites , cyanides
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).
Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:
Swallowed : May cause irritation of the gastric system. May be harmful . For ferric nitrate LD50 oral rat 3250 mg/kg.
Eye : Irritating to eye tissue.
Skin : May irritate skin tissue.
Inhaled : No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
No data available.
Persistence and degradability:
No data available.
Mobility:
No data available.

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Number: Not applicable
UN Proper Shipping Name: Not applicable
Class and subsidiary risk(s): Not applicable
Packing Group: Not applicable
Hazchem Code: Not applicable
Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):
Schedule 5

16. OTHER INFORMATION

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