AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: March 2019
Version No: 1

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Zinc Chloride Solution SG 2
Product Code:	2214
Other Names:	Nil
Uses:	Laboratory reagent

Supplier:	Australian Chemical Reagents 38-50 Bedford Street Gillman SA 5013	
Contacts:	Telephone:	61 08 84402000
	Fax:	61 08 84402001
Emergency Phone:	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	

2. HAZARDS INFORMATION

GHS Classification

Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Eye Damage/Irritation: Category 1
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 1A

Signal Word(s)

DANGER

Pictogram(s)



Hazard Statement(s)

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Preventative

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390 Absorb spillage to prevent material damage.

Storage P405 Store locked up.

Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Zinc chloride	[7646-85-7]]	14%
Water	[7732-18-5]	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 carbon.

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.

Hazchem Code: 2X

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:

A time weighted average (TWA) has been established for Zinc chloride (fume) (Safe Work Australia) of 1 mg/m³. The corresponding STEL level is 2 mg/m³. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Biological Limit Values: No data available.

Engineering Controls:

Not required with normal use.

Personal Protective Equipment (PPE):

The use of rubber 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 :	Clear liquid
Odour:	Nil
pH:	Not known
Boiling Point (^{0}C) :	Not known
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25^{0}C) :	Not applicable
Vapour Density:	Not applicable
Specific Gravity :	Not known
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:

Strong oxidizing agents, potassium, acids and acid fumes. Do not use metal equipment or containers.

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 burning taste. For Zinc chloride anhydrous LD50 oral-rat 350mg/kg.

Eye : Corrosive to eye tissue.

Skin : Corrosive skin tissue. May defat skin.

Inhaled : Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Chronic Effects: Chronic inhalation may lead to asthma. Chronic ingestion may cause disordered digestion and constipation.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Hazard for drinking water supplies.
Do not allow to enter waters, waste water, or soil!
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: 1840
UN Proper Shipping Name: ZINC CHLORIDE SOLUTION
Class and subsidiary risk(s): -
Packing Group: III
Hazchem Code: 2X
Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):
S6

16. OTHER INFORMATION

Disclaimer:
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END of SDS