

# SAFETY DATA SHEET

# KEMAUS

## ZINC SULPHATE 7-HYDRATE AR

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### 1. Identification of the substance/preparation and of the company or firm

- 1.1 Identification of the substance or preparation:  
Catalogue no. : KA583  
Product name : Zinc sulphate 7-hydrate AR
- 1.2 Use of the substance/preparation: For laboratory utilisation, analysis, research and fine chemistry.
- 1.3 Identification of the company or firm: Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia  
Tel no. (61) 2 98998169  
Fax no. (61) 2 98997976
- 1.4 Emergency telephone: (61) 2 98998169 (9:00am - 5:00 pm) [ Office hours ]
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### 2. Identification of dangers

- 2.1 Classification of the substance.  
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)  
Acute Toxicity, oral, Category 4: Harmful if swallowed.  
Serious Eye Damage, Category 1: Causes serious eye damage.  
Hazardous to the aquatic environment, Chronic aquatic toxicity, Category 1: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements.

Hazard pictograms



Signal words : Danger.

Hazard statements (H) :

- H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.  
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements (P) :

- P264 : Wash thoroughly after handling.  
P273 : Avoid release to the environment.  
P280 : Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P391 : Collect spillage.  
P501 : Dispose of contents / container according to the regulation.

#### 2.3 Other hazards.

None known.

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### 3. Composition/information on ingredients

- 3.1 Substance / Preparation.  
Zinc sulphate 7-hydrate  
Formular:  $ZnSO_4 \cdot 7H_2O$   
CAS No : 7446-20-0  
Molecular weight : 287.58  
Contains no other components or impurities which will influence the classification of the product.
- 3.2 Mixture.  
Not applicable.
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### 4. First-aid measures

- 4.1 Description of first aid measures.
- Inhaling: Take the person out into the fresh air. If breathing is irregular or stops, perform artificial respiration.
- Skin contact: Remove contaminated clothing. Wash skin with water and soap or a suitable skin cleaner.
- Eyes: Wash with plenty of water, keeping eyelids open and seek medical assistance.
- Ingestion: Rinse mouth. Never induce vomiting. Seek immediate medical attention

4.2 Most important symptoms and effects, both acute and delayed.

Corrosive and Harmful Product, contact with eyes or skin can cause burns. Ingestion or inhalation can cause internal damage. Prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Seek immediate medical advice.

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**5. Fire-fighting measures**

5.1 Suitable extinguishing media.

Recommended extinguishing methods: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2 Special hazards arising from the substance.

Special risks: Under fire conditions, hazardous fumes will be present. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Do not enter fire area without proper protective equipment, including respiratory protection.

Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

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**6. Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up.

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Store away from other materials.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

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**7. Handling and storage**

7.1 Precautions for safe handling.

Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Well sealed containers. Dry atmosphere. Away from sources of ignition and heat. Prevent the entry of non-authorised persons.

7.3 Specific end use(s).

None.

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**8. Exposure controls/personal protection**

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values.

The product does NOT contain substances with Biological Limit Values.

8.2 Exposure controls.

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : Wear approved mask.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Hygiene measures : Remove contaminated clothing. Wash hands before breaks and when the job is done.

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**9. Physical and chemical properties**

9.1 Information on basic physical and chemical properties.

Appearance:	Solid.
Colour:	Colourless efflorescent crystals.
Odour:	Odourless.
Odour threshold:	No data available.
pH value:	4.0-6.0 (50g/l)
Melting Point:	100 °C
Boiling Point:	Not applicable.
Flash point:	Not applicable.

Flammability (solid, gas) :	No data available.
Evaporation rate :	No data available.
Vapour pressure:	No data available.
Vapour density :	No data available.
Lower Explosive Limit:	No data available.
Upper Explosive Limit:	No data available.
Solubility:	965g/l (20 °C)
Density:	No data available.
Relative density	1.97 g/cm <sup>3</sup>
Partition coefficient (n-octanol/water):	No data available.
Viscosity:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	> 39 - 280 (20 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

#### 9.2 Other information.

None.

### 10. Stability and reactivity

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

#### 10.2 Chemical stability.

Releases water of crystallisation when heated.

#### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

#### 10.4 Conditions to avoid.

Avoid contact with base.

#### 10.5 Incompatible materials.

Keep away from Metals and bases.

#### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated corrosive vapors or gases.

### 11. Toxicological information

#### 11.1 Information on toxicological effects.

Acute toxicity.	LD50 oral rat : 1260 mg/kg
Inhalation:	Based on available data, the classification criteria are not met.
Dermal:	Based on available data, the classification criteria are not met.
Ingestion:	Harmful if swallowed.
Corrosion:	Based on available data, the classification criteria are not met.
Irritation:	Causes serious eye damage.
Sensitization:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

### 12. Ecological information

#### 12.1 Toxicity.

Toxicity to fish.

LC50 Oncorhynchus mykiss : 0.1 mg/l (96 h)

Toxicity to aquatic plants.

IC50 Scenedesmus quadricauda : 0.52 mg/l (5 d)

#### 12.2 Persistence and Degradability.

Biodegradable.

#### 12.3 Bioaccumulative potential.

Not established.

#### 12.4 Mobility in soil

Not established.

#### 12.5 Results of PBT and vPvB assessment.

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

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**13. Disposal considerations**

13.1 Waste treatment methods.

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

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**14. Transport information**

14.1 UN number.

UN No: UN3077

14.2 UN proper shipping name.

ADR: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE), 9, PG III, (E)

IMDG: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE), 9, PG III

ICAO: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE), 9, PG III

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: Yes

14.6 Special precautions for user.

Labels: 9

Hazard number: 90

ADR LQ: 5 kg

IMDG LQ: 5 kg

ICAO LQ: 30 kg

Provisions concerning carriage in bulk ADR:

VC1 : Carriage in bulk in sheeted vehicles, sheeted containers or sheeted bulk containers is permitted.

VC2 : Carriage in bulk in closed vehicles, closed containers or closed bulk containers is permitted.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-F

Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

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**15. Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance.

Ensure all national/local regulations are observed.

The product is not affected by REACH Restrictions - Annex XVII

The product is not affected by REACH Authorisation - Annex XIV

15.2 Chemical safety assessment.

Not Scheduled.

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**16. Other Information**

Abbreviations and acronyms :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective concentration, 50%

IC50: Inhibitory Concentration, 50%

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

Sources of key data used.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Review number and date.

v. 1.0

Date published.

16-Nov-2016

Further information.

None.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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