SAFETY DATA SHEET



ALUMINIUM SULPHATE 18-HYDRATE AR

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation:

Catalogue no.: KA24

Product name: Aluminium sulphate 18-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

(61) 2 98998169 (9:00am - 5:00 pm) [Office hours] 1.4 Emergency telephone:

Identification of dangers

2.1 Classification of the substance.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Eye damage, Category 1: Causes serious eye damage.

2.2 Label elements. Hazard pictograms



Signal words: Danger. Hazard statements (H):

H318: Causes serious eye damage.

Precautionary statements (P):

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 or doctor/physician.

2.3 Other hazards.

None known.

3. Composition/information on ingredients

Substance / Preparation.

Aluminium sulphate 18-hydrate Formular: Al₂(SO₄)₃.18H₂O CAS No: 7784-31-8 Molecular weight: 666.42

Contains no other components or impurities which will influence the classification of the product.

Mixture

Not applicable.

4. First-aid measures

4.1 Description of first aid measures.

Inhaling: Take the person out into the fresh air.

Skin contact: Wash with plenty of water. Remove contaminated clothing.

Eyes: Wash with plenty of water, keeping eyelids open and seek medical assistance.

Ingestion: Never induce vomiting. Seek immediate medical assistance.

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

Irritate Product, contact with eyes or skin can cause redness, risk of serious damage to eyes or blindness.

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.

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 may present.

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.

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. Collect spillage.

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.

7. Handling and storage

7.1 Precautions for safe handling.

The product does not require special handling measures. Ensure good ventilation and renewal of the air in the premises.

Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities.

The product does not require special storage measures. Well sealed containers. Away from sources of ignition and heat.

7.3 Specific end use(s).

None.

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. Others: When using, do not eat, drink or smoke.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance: Solid.

Colour: Small white crystals.

Odour: No data available.

Odour threshold: No data available.

pH value: 2.5-4.0 (50 g/l, 20°C)

Melting Point: 90 °C

Boiling Point: No data available. Flash point: Does not flash.

Flammability (solid, gas) : The product is not flammable.

Evaporation rate: No data available. No data available. Vapour pressure: Vapour density: No data available. Lower Explosive Limit: Not applicable. Upper Explosive Limit: Not applicable. 364 g/l (20 °C) Solubility: Density: No data available. 1.72 g/cm³ Relative density:

Partition coefficient (n-octanol/water): No data available.

Decomposition temperature: 770 °C

Viscosity: No data available.

Explosive properties: Not classified as explosive. Oxidizing properties: Not classified as oxidizing.

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.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid strong heating.

10.5 Incompatible materials.

No information available.

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 : > 5000 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: Based on available data, the classification criteria are not met.

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 Pimephales promelas : 27.9 mg/l; 96 h Toxicity to daphnia and other aquatic invertebrates.

LC50 Daphnia magna: 242 mg/l; 48 h

Toxicity to algae.

EC50 plankton: 19091 mg/l; 5 d

 ${\bf 12.2\ Persistence\ and\ Degradability}.$

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.

13. Disposal considerations

13.1 Waste treatment methods.

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

14. Transport information

14.1 UN number.

Not regulated.

14.2 UN proper shipping name.

ADR: Not regulated.

IMDG: Not regulated.

ICAO: Not regulated.

14.3 Transport hazard class(es).

Not regulated.

14.4 Packing group.

Not regulated.

14.5 Environmental hazards.

Not regulated.

14.6 Special precautions for user.

Transportation is not dangerous

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

Not applicable

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.

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.

8-Sep-2016

Further information.

None.

In accordance with REACH Regulation (CE) № 1907/2006 and with CLP Regulation (CE) № 1272/2008

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