

SAFETY DATA SHEET

ALUMINIUM SULPHATE SOLUTION - 40%

Infosafe No.: 1HH22
ISSUED Date : 04/09/2018
ISSUED by: CULBEAG HOLDINGS Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

ALUMINIUM SULPHATE SOLUTION - 40%

Company Name

CULBEAG HOLDINGS Pty Ltd (ABN 95 007 197 079)

Address

19 Allied Drive Tullamarine
VICTORIA 3043 Australia

Telephone/Fax Number

Tel: 03 9335 4400
Fax: 03 9335 1750

Emergency phone number

03 9335 4400

Emergency Contact Name

Mr Ian Cameron

E-mail Address

sales@culbeag.com.au

Recommended use of the chemical and restrictions on use

Flocculant, treating swimming pools, water treatment, pulp and paper industry.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Dermal: Category 4

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 2

Hazard Statement (s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Pictogram (s)

Corrosion, Exclamation mark

**Precautionary statement – Prevention**

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P321 Specific treatment (see First Aid section of this SDS or on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Disposal

Dispose of contents and container in accord with State, Territorial and Commonwealth regulations.

Supplemental Information

In Australia the "POISON CENTER" is the Poisons Information Centre. Telephone 131126.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Aluminium Sulphate	10043-01-3	40 %
Water	7732-18-5	Balance

4. FIRST-AID MEASURES

Inhalation

If a person's breathing is affected by exposure to this product, remove person from contaminated area. Position patient in a comfortable position, loosen clothing and keep warm. Seek medical aid on site or transport to a hospital for medical attention.

Ingestion

If swallowed do NOT induce vomiting. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

If person is conscious, rinse mouth with water but do not swallow rinse water; then patient can drink 1 or 2 glasses of water. Seek medical advice promptly.

Skin

If skin or hair contact occurs, promptly remove contaminated clothing and wash skin and hair with flowing water for 15 minutes. If irritation occurs and persists seek medical advice.

Eye contact

If in eye(s), remove contact lenses if worn, then hold eyelid(s) apart and flush the eye and surrounding tissue continuously with running water. Wash for at least 15 minutes. If irritation persists seek medical aid. Transport to hospital or medical centre; maintaining washing of the eye(s) during transit.

First Aid Facilities

Eye wash facility. Shower. Drinking quality water source.

Advice to Doctor

Treat symptomatically. Can cause eye injury. Product is an astringent.

5. FIRE-FIGHTING MEASURES

Special Protective Equipment for fire fighters

Fierfighters should wear Self-contained breathing apparatus and appropriate protective equipment for skin and eye protection if potential for thermal decomposition of product.

Specific Hazards Arising From The Chemical

No fire or explosion hazards expected from the water based product, which is not a combustible material.

Product decomposes on heating emitting toxic fumes including oxides of sulphur.

Precautions in connection with Fire

Wear basic fire fighting clothing and equipment suitable for combatting the major source of fire. Keep containers of product cool.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Avoid skin and eye contact by wearing appropriate protective equipment clothing and footwear.

Contain spill using sand or soil to prevent entry into water courses, drains or sewers. If contamination of drains, sewers or waterways has occurred notify local emergency services.

Neutralise spills with soda ash or lime. Collect wastes in containers and label accordingly. Absorb residual amounts with an inert absorbent such as oil, sand or an inert absorbent.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes and clothing. Wash thoroughly after handling. Avoid generation of mists and inhalation of mists.

Conditions for safe storage, including any incompatibilities

Store in closed containers in a cool, dry location. Product is expected to be corrosive to mild steel equipment and pipe work. Acid resistant materials should be used.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standard or guidelines established for this product.

The Workplace Exposure Standard* for "Aluminium, soluble salts (as Al)" is 2 mg/cubic metre, TWA.

Where;

TWA means the time weighted average airborne concentration of a particular substance when measured over an eight-hour working day, for a 5 day working week.

Appropriate Engineering Controls

No special engineering controls required. Good general ventilation should be adequate.

Personal Protective Equipment

RESPIRATORY; Not normally required. If mists generated during handling and/or use select* and wear an approved mist removal respirator*.

SKIN; Wear approved body covering clothing*. Avoid contact with the solution. Wear PVC coated gloves. Wash contaminated clothing thoroughly before re-use.

EYES: Wear approved chemical goggle during handling and use*.

FOOTWEAR: Wear foot covering shoes or boots with safety toe caps.

Hygiene Measures

Avoid contact with skin and eyes. Avoid inhalation of mists. Wash hands and face thoroughly before eating or drinking and at the end of work periods. Remove contaminated clothing and launder thoroughly before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear colourless solution. No odour.

Boiling Point

Approximately 100°C

Solubility in Water

Completely miscible.

Specific Gravity

1.25

pH

3.0

Flash Point

Not relevant (water based solution).

Flammability

Neither a flammable nor combustible liquid. Product is a water based solution.

10. STABILITY AND REACTIVITY

Reactivity

Corrodes metals.

Chemical Stability

Stable at normal working conditions

Incompatible materials

Corrosive to iron, steel, aluminium, tin, zinc, copper, brass and bronze.

Hazardous Decomposition Products

If product is dehydrated due to exposure to a fire or heat anhydrous aluminium sulphate decomposes at temperatures above 770°C liberating oxides of sulphur and aluminium oxides.

Hazardous Polymerization

Does not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No data available for this product. For anhydrous aluminium sulphate, oral LD50 (rat) is reported to be > 5000 mg/kg.

Ingestion

Low single dose oral toxicity. Swallowing of small amounts incidental to normal handling and use will not cause injury. However swallowing of larger quantities may cause abdominal pain, nausea, possibly vomiting and diarrhoea.

Inhalation

Not likely to be inhaled due to physical properties unless mists generated during use. Inhalation of mist may cause respiratory irritation.

Skin

Single exposure may cause moderate irritation of skin. Repetitive or prolonged contact will cause more severe irritation. Skin may become dry from repeated or prolonged exposure.

Eye

Will cause moderate irritation. Repeated exposure may cause severe injury or damage to the eye.

Chronic Effects

Prolonged exposure without skin protection may lead to drying of the skin and possible dermatitic effects.

Other Information

No adverse health effects are anticipated if product is handled appropriately and in accord with good work practices and information in this SDS.

12. ECOLOGICAL INFORMATION

Environmental Protection

Do not discharge to water courses, drains or sewers unless under approved conditions.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Dispose of waste liquid at an approved waste water treatment plant. Aluminium sulphate may be used to aid the waste water treatment process as a flocculant. Bury waste absorbent in an approved landfill site according to relevant State, Territorial or Commonwealth regulations.

14. TRANSPORT INFORMATION

Transport Information

Not classified as a dangerous good according to the criteria of Australian Dangerous Goods Code* for transport by road or rail.
Not classified as dangerous good for transport by sea or air transport.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

15. REGULATORY INFORMATION

Regulatory information

Classified as a HAZARDOUS CHEMICAL according to the Globally Harmonised System for Classification and Labelling of Hazardous Chemicals* adopted by SWA*.

CLASSIFICATION outcome:-

Acute oral toxicity - Category 4;
Skin Irritation - Category 2; and
Eye Damage - Category 1.

Hazard Statements are:-

Harmful if swallowed;
Causes skin irritation; and
Causes serious eye damage.

Poisons Schedule

Not Scheduled

Packaging & Labelling

Labelled in accord with the National Code of Practice for the Labelling of Workplace Substances*.

Mandatory statements required on label are identified in Section 2.

Pictograms also required are depicted in Section 2.

Australia (AICS)

Aluminium sulphate is in the Australian Inventory of Chemical Substances*.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

Review and Revision of existing MSDS, which is now issued on 4 September 2018 as a Safety Data Sheet (SDS) prepared in accord with the SWA code of practice for preparation of a SDS.* Significant changes are Section 2 - Classification according to principles and practices of GHS Classification and Labelling of Hazardous Chemicals, Section 15 - Regulatory information, which reports significant information re classification as a Hazardous Chemical, Packaging and Labelling; reflects the need for mandatory statements and pictograms obtained by GHS classification process to be included on the label and Literature References revised to reflect conversion to classification of a Hazardous Chemical.

References

- * Australian Dangerous Goods Code, as currently amended.
- * GHS = Globally Harmonised System for the Classification and Labelling Hazardous Chemicals. United Nations publication
- * Standard for the Uniform Scheduling of Medicines and Poisons (hard copy) or National Poisons Standard at www.comlaw.gov.au.
- * Exposure Standards for Atmospheric Contaminants in the Occupational Environment in Exposure Standards section of Hazardous Chemical Information System [HCIS], as amended.
- * AS 1716 - Respiratory protective devices.
- * AS 1715 - Selection, use and maintenance of respiratory protective devices.
- * AS/NZS 4501.2:2006 Occupational protective clothing ' General requirements.
- * AS/NZS 1337 - Eye protection for the industrial environment.
- * AS/NZS 1336 - Recommended practices for eye protection in the industrial environment.

- * National Model Code of Practice for Labelling of Workplace Hazardous Chemicals, Safe Work Australia
- * AICS = Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment Scheme.
- * National Model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, as amended Safe Work Australia.

Where:-

SWA refers to SAFE WORK AUSTRALIA;

AS refers to an Australian Standard;

NZS refers to a New Zealand Standard; and AS/NZS is a joint standard.

Contact Person/Point

BUSINESS HOURS: Product Information Officer, (03) 9335 4400

This SDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is available on our website at www.culbeag.com.au

END OF SDS

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