

# SAFETY DATA SHEET

## ALUMINIUM SULPHATE

Infosafe No.: 1HH1M  
ISSUED Date : 16/01/2019  
ISSUED by: CULBEAG HOLDINGS Pty Ltd

### 1. IDENTIFICATION

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**GHS Product Identifier**

ALUMINIUM SULPHATE

**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**

Water treatment as a flocculant to coagulate impurities; paper and pulp industry, as a mordant for dyeing and printing fabrics; as a foaming agent in fire fighting foam; water proofing agent and an accelerant for concrete; pH adjustment of soils.

### 2. HAZARD IDENTIFICATION

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**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)

Eye Damage/Irritation: Category 2A

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H319 Causes serious eye irritation.

**Pictogram (s)**

Exclamation mark

**Precautionary statement – Prevention**

P280 Wear 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 so. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### **Precautionary statement – Response**

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 document or on this label).

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

#### **Precautionary statement – Disposal**

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

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

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#### **Ingredients**

<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
Aluminium Sulphate	10043-01-3	99-100 %

### **4. FIRST-AID MEASURES**

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#### **Inhalation**

Inhalation is unlikely to occur unless dusts are generated during handling and use. Remove affected person from contaminated area to fresh air. If not breathing apply artificial respiration. If breathing difficult oxygen can be given by trained personnel. If still having signs and symptoms of breathing difficulty seek medical attention or transport to an emergency hospital.

#### **Ingestion**

Never give liquids to a person who is unconscious or having convulsions. Rinse mouth with water. Do NOT swallow rinse water. Do NOT induce vomiting. Then give a glass of water to drink. Seek medical assistance.

#### **Skin**

Remove contaminated clothing. Flush skin and/or hair with plenty of water; continue washing for at least 15 minutes. If irritation occurs and persists seek medical attention. Wash contaminated clothing thoroughly before re-use.

#### **Eye contact**

Immediately flush eye(s) and area around eye(s) with flowing water for at least 15 minutes. Hold eyelid(s) apart while flushing. Remove contact lenses if present and easy to remove. Promptly obtain medical attention; transport to hospital or a medical centre.

#### **First Aid Facilities**

Drinkable water source. Eye wash facility. Safety shower or source of flowing water.

#### **Advice to Doctor**

Treat symptomatically based on judgment of attending doctor and patient's reaction. Product can cause burns to eye tissue. Note that water solution of the product is acidic.

### **5. FIRE-FIGHTING MEASURES**

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#### **Fire Fighting Measures**

Product is neither flammable nor combustible.

#### **Suitable Extinguishing Media**

In event of a fire use an extinguishing medium suitable for the surrounding materials that are burning.

#### **Hazards from Combustion Products**

Not a fire or explosion hazard. If exposed to sufficient heat product will decompose to oxides of sulphur and aluminium. Solutions of the product with water are acidic and will corrode metals.

#### **Special Protective Equipment for fire fighters**

Fire fighters should wear suitable protective clothing and equipment appropriate for fighting the principal fire source. Clear the area of non-essential personnel.

## 6. ACCIDENTAL RELEASE MEASURES

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### Emergency Procedures

Clear area of non-essential personnel and spectators. Wear suitable protective equipment to prevent skin and eye contact/exposure. Avoid generation of dusts. A large spill may require assistance from emergency services.

### Methods And Materials For Containment And Cleaning Up

Prevent entry of product into drains, sewers or waterways. Sweep up without generating dusts. Collect in suitably labelled containers for disposal or use. Waste product may be suitable for waste water treatment.

## 7. HANDLING AND STORAGE

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### Handling and storage

Avoid skin and eye contact and inhalation of airborne dusts. Avoid generation of dusts.

Store under cover in a dry location. Store away from incompatible materials (Section 10).

Keep container closed when product not in use. Check regularly for spillage and damaged containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

The Workplace Exposure Standard\*(WES)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

Ensure general and local exhaust ventilation maintains the concentration of dusts below the recommended Workplace Exposure Standard.

### Personal Protective Equipment

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

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

EYES: Wear approved chemical goggles or safety glasses \* with side shields during handling and use.

CLOTHING: Select and wear approved occupational protective clothing\*.

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

### Hygiene Measures

Avoid contact with skin and eyes. Avoid inhalation of dusts. 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

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### Appearance

White to brownish solid - granules or powder. Hyroscopic . i.e. attracts moisture.

### Odour

No odour.

### Melting Point

770°C but decomposes emitting toxic fumes including oxides of sulphur and oxides of aluminium..

### Solubility in Water

Solubility = 36.4 g/100 ml @ 20°C.

### Specific Gravity

1.7

### pH

Acidic if wet.

**Vapour Pressure**

Not applicable.

**Flash Point**

Not applicable

**Flammability**

Not a flammable compound.

**Flammable Limits - Lower**

Not applicable

**Flammable Limits - Upper**

Not applicable

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## 10. STABILITY AND REACTIVITY

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**Reactivity**

Absorbs water or moisture from surroundings.

**Chemical Stability**

Stable under regular ambient conditions.

**Conditions to Avoid**

Avoid exposure to moisture. In the presence of moisture or water may react with some metals due to formation of sulphuric acid.

**Incompatible materials**

Incompatible with air, water, strong bases.

**Hazardous Decomposition Products**

Oxides of sulphur and aluminium.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

Acute oral LD50 (Rat) is > 5000 mg/kg.

Astringent i.e. tends to shrink or constrict human tissue.

**Ingestion**

If swallowed will cause irritation of mucous membranes in mouth, pharynx, oesophagus and gastro-intestinal tract. Outcomes being nausea, vomiting, diarrhoea and gastro-irritation.

**Inhalation**

No adverse effects anticipated except if an inhalable dust is generated and inhaled. Inhaled dust may cause irritation of respiratory tissues.

**Skin**

Slight irritation of skin, astringency effects.

**Eye**

Causes severe eye irritant.

**Other Information**

No adverse health effects anticipated if the product is handled in accord with the information within this SDS and safe work procedures are implemented.

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## 12. ECOLOGICAL INFORMATION

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**Ecological information**

Toxic to aquatic organisms.

**Mobility**

Highly mobile in soils.

**Environmental Protection**

Avoid entry into waterways, storm water drains and sewers.

## 13. DISPOSAL CONSIDERATIONS

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### Disposal considerations

Dispose of in accordance with relevant State, Territorial or Commonwealth government regulations. As a flocculating agent aluminium sulphate could be used in a water treatment plant over time. Whatever cannot be used should be deposited in an approved waste disposal facility.

## 14. TRANSPORT INFORMATION

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### Transport Information

NOT classified as a Dangerous Good for transport by road, rail sea or air.

### U.N. Number

None Allocated

### UN proper shipping name

None Allocated

### Transport hazard class(es)

None Allocated

## 15. REGULATORY INFORMATION

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### Regulatory information

Classified as a hazardous chemical according to the criteria of GHS Classification and labelling adopted by Safe Work Australia\*.

Classification is:-

Serious eye damage/irritation - Category 2A.

Not scheduled as a poison.

### Poisons Schedule

Not Scheduled

### Packaging & Labelling

For labelling purposes pictogram, essential statements for hazard, response, prevention, storage and disposal are detailed in Section 2 of this SDS above. Note: that the pictogram required for labelling this product is illustrating a health hazard NOT that the product is a Dangerous Good.

In the workplace, decanted quantities of the product must be labelled in accord with Code of Practice for labelling workplace hazardous chemicals\*.

### Australia (AICS)

Aluminium sulphate is in the Australia Inventory Of Chemical Substances\*.

## 16. OTHER INFORMATION

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### Date of preparation or last revision of SDS

Existing MSDS reviewed, revised and issued on 3rd December 2018 as a Safety Data Sheet(SDS) in accord with the National Code of Practice for preparing a SDS\*.

Significant changes and revisions are Classification as a Hazardous Chemical in accord with GHS Classification and Labelling guidelines adopted by SWA resulting in a revised Section 2; Revisions to First Aid Instructions for Eye and Skin exposure, Section 6; Section 8- inclusion of new sub-section - Appropriate Engineering Controls; Section 15 - Regulatory Information now reflects Hazardous Chemical information and Packaging and Labelling sub-section. While Section 16 is updated and Literature References are relevant to new classification.

### References

\*Australian Dangerous Goods Code, as amended.

\*Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

\*WES = National Exposure Standards for Atmospheric Contaminants in the Occupational Environment in Exposure Standards section of Hazardous Substances Information System [HSIS], as amended.

\*SWA = Safe Work Australia

\*AS = Australian Standard

- \*NZS = New Zealand Standard
- \*AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.
- \*AS/NZS 1716: Respiratory protective devices.
- \*AS/NZS 1337: Eye protectors for the industrial applications.
- \*AS/NZS 1336: Recommended practices for eye protection in the industrial environment.
- \*AS/NZS 4501.2:2006 Occupational protective clothing - General requirements.
- \*Code of Practice for Labelling of Workplace Hazardous Chemicals. SWA, September 2015.
- \*Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment scheme. ([www.nicnas.gov.au](http://www.nicnas.gov.au)).
- \*Code of Practice for the Preparation of Safety Data Sheet for Workplace Hazardous Chemicals.SWA 2nd Edition.

**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](http://www.culbeag.com.au)

## END OF SDS

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