



**SALES & SERVICES**

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## Safety Data Sheet

### 1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

**1.1 Product identifiers**

Product name : ALUMINIUM SULPHATE

**1.2 Other means of identification**

Aluminium sulphate, Alum Floc, AIFloc, Crystal Quick, Sulphuric Acid Aluminium Salt

**1.3 Recommended use of the product and restrictions on use**

Swimming pool chemical: water flocculant.

**1.4 Details of supplier of the safety data sheet**

Company : AGent Sales & Services Pty Ltd

Street address : 38 May Holman Drive, Bassendean, Western Australia 6054

Telephone : (+61 8) 6270 4500

Fax : (+61 8) 6270 4544

**1.5 Emergency telephone number**

Telephone : 1300 883 844

### 2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; **NON-DANGEROUS GOODS**.

This material is hazardous according to Safe Work Australia; **HAZARDOUS SUBSTANCE**.

**2.1 GHS Classification**

Serious eye damage / eye irritation (Category 1)

**2.2 GHS Label elements, including precautionary statements**

Pictogram :



Signal word : DANGER

Hazard statement(s)

H318 Causes serious eye damage

Precautionary statement(s)

Prevention

P280 Wear eye protection / face protection.

Response

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 CENTRE or doctor / physician.

Storage

No storage statements.

**Disposal**

No disposal statements.

**2.3 Other hazards**

None

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Component          | CAS Number | Classification   | Concentration (%) |
|--------------------|------------|------------------|-------------------|
| Aluminium sulphate | 10043-01-3 | Eye Dam. 1; H318 | >99.5             |

For the full text of the H-Statements mentioned in this section, see Section 16

**4. FIRST AID MEASURES****4.1 Description of First Aid measures****General advice**

Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

In case of eye contact, check for and remove any contact lenses. Immediately rinse thoroughly with plenty of running water for at least 15 minutes, keeping eyelids open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. If swallowed, give a glass of water to drink. Seek medical advice.

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

The most important known symptoms and effects are described in Section 2.2 and/or Section 11.

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

No data available.

**4.4 First Aid facilities**

Eye wash facilities and safety shower should be available.

**5. FIRE FIGHTING MEASURES****5.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the chemical**

Sulphur oxides, Aluminium oxide

**5.3 Special protective equipment and precautions for fire fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Hazchem code**

Not applicable

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see Section 8.

**6.2 Environmental precautions**

Do not let product enter drains or waterways.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see Section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry, well-ventilated place. Store away from incompatible materials described in Section 10.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

| Chemical Name                    | Reference | TWA – Peak Limitation |                   | STEL |                   | Carcinogen Category | Notices |
|----------------------------------|-----------|-----------------------|-------------------|------|-------------------|---------------------|---------|
|                                  |           | ppm                   | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |                     |         |
| Aluminium, soluble salts (as Al) | ASCC      | -                     | 2                 | -    | -                 | -                   | -       |
| Inspirable dust                  | ASCC      | -                     | 10                | -    | -                 | -                   | -       |

As published in "Workplace Exposure Standards for Airborne Contaminants, December 2011" by SWA.

#### Biological Limits

None allocated for this product.

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Personal protective equipment (PPE)

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.

#### Eye/face protection

Safety glasses with side shields or goggles. See Australian Standards (AS/NZS 1336 & 1337).

#### Skin protection

Wear protective gloves and protective clothing appropriate for the risk of exposure. See Australian Standards (AS 2161 & 2919 and AS/NZS 2210). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

#### Respiratory protection

If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator. See Australian Standards (AS/NZS 1715 & 1716).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Form : Crystalline solid

Colour : White

**Odour:** Odourless

**Odour Threshold:** Not applicable

|                                   |                   |
|-----------------------------------|-------------------|
| <b>pH:</b>                        | No data available |
| <b>Melting Point:</b>             | No data available |
| <b>Boiling Point:</b>             | No data available |
| <b>Decomposition Temperature:</b> | 770°C             |
| <b>Evaporation Rate:</b>          | Not applicable    |
| <b>Flash Point:</b>               | No data available |
| <b>Auto Ignition Temperature:</b> | No data available |
| <b>Flammability:</b>              | Not flammable     |
| <b>Upper Explosive Limit:</b>     | No data available |
| <b>Lower Explosive Limit:</b>     | No data available |
| <b>Density:</b>                   | 2.71 g/mL @ 25°C  |
| <b>Vapour Density (air=1):</b>    | No data available |
| <b>Vapour Pressure:</b>           | No data available |
| <b>% Volatiles:</b>               | No data available |
| <b>Solubility in water:</b>       | 1000 g/L @ 20°C   |

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Corrosive to metals in the presence of water.

### 10.2 Chemical stability

Stable under normal ambient, and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Corrosive to damp steel. Dust explosion hazard.

### 10.4 Conditions to avoid

Avoid dust generation. Avoid exposure to heat, sources of ignition, and open flame.

### 10.5 Incompatible materials

Incompatible with strong oxidising agents.

### 10.6 Hazardous decomposition products

When involved in a fire, this product may generate sulphur oxides. Hydrolysis to form dilute sulphuric acid.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral (rat) : > 5,000 mg/kg

#### Skin corrosion/irritation

Skin – Rabbit : Result: No skin irritation - 4 h.

#### Serious eye damage/eye irritation

Eyes – Rabbit : Result: Irritating to eyes.

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

Non mutagenic

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

#### Reproductive toxicity

No data available

**Specific target organ toxicity (STOT) - single exposure**

No data available

**Specific target organ toxicity (STOT) - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Health Effects**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Eye contact :** May be an eye irritant.

**Skin contact :** Slight irritations.

**Ingestion :** Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

**Inhalation :** No information available on the symptoms of inhalation for this product.

**11.2 Information on possible routes of exposure**

The substance can be absorbed into the body by ingestion and by inhalation.

**11.3 Additional Information**

RTECS: BD1700000

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity**

Avoid contaminating waterways.

Quantitative data on the ecological effects of this product are not available.

Further ecologic data: The following applies to aluminium compounds in general : for acidic aluminium compounds : biological effect : toxic for water organisms. Fish : toxic as from 0.55 mg/l; in very soft water toxic as from 0.1 mg/l; crustaceans : D magna toxic as from 136 mg/l; algae : Sc quadricauda toxic as from 1.5mg/L (all values referring to dissolved Al). In the case of alkaline aluminium compounds, flocculation may cause mechanical damage in aquatic organisms. The following applies to sulphate in general : biological effects : fish : toxic as from 7g/L bacteria : toxic as from 2.5 g/l.

No ecological problems are to be expected when the product is handled and used with due care and attention.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS****13.1 Disposal methods and containers**

Ensure waste disposal conforms to relevant local, state and federal authority waste disposal regulations. All empty packaging should be disposed of as unused product.

**13.3 Special precautions for landfill or incineration**

Contact a specialist disposal company or the local waste regulator for advice.

**14. TRANSPORT INFORMATION**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; **NON-DANGEROUS GOODS**

|  |                |
|--|----------------|
| <b>14.1 UN number</b>  | Not applicable |
| <b>14.2 Proper shipping name</b>   | Not applicable |
| <b>14.3 Transport hazard class</b>   | Not applicable |
| <b>14.4 Packing group</b>  | Not applicable |
| <b>14.5 Environmental hazards</b>  | Not applicable |
| <b>14.6 Special precautions for users</b>  | Not applicable |
| <b>14.7 Hazchem code</b>   | Not applicable |
| <b>14.8 Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010)</b> | Not applicable |

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

None allocated

#### Carcinogen classification under WHS Regulations 2011, Schedule 10

Not listed

#### Notification status

**AICS** On the inventory or in compliance with the inventory

## 16. OTHER INFORMATION

### Key / legend to abbreviations and acronyms used in the MSDS

|                   |   |
|-------------------|---|
| ADG               | Australian Dangerous Goods  |
| ASCC              | Australian Safety and Compensation Council  |
| DEC               | Department of Environment and Conservation  |
| NOHSC             | National Occupational Health and Safety Commission  |
| SUSDP             | Standard for the Uniform Scheduling of Drugs and Poisons  |
| Eye Dam.          | Serious eye damage  |
| TWA               | Time weighted average   |
| STEL              | Short term exposure level   |
| SWA               | Safe Work Australia   |
| Peak Limitations  | A ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible, but not exceeding 15 minutes                     |
| LD <sub>50</sub>  | Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation |
| LC <sub>50</sub>  | Lethal concentration that kills 50% of an animal population within a specified time   |
| TD Lo             | The lowest dose of a substance known to have produced signs of toxicity   |
| RTECS             | Registry of Toxic Effects of Chemical Substances  |
| g/L               | Grams per litre   |
| g/cm <sup>3</sup> | Grams per cubic centimetre  |
| mg/m <sup>3</sup> | Milligrams per cubic metre  |
| mg/kg             | Milligrams per kilogram   |
| pH                | Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline                               |
| WHS               | Work Health and Safety  |

### Literature references

"Workplace Exposure Standards for Airborne Contaminants, December 2011" by SWA  
Work Health and Safety Regulations 2011

### Reason(s) for Issue:

Revised primary SDS  
Alignment to GHS requirements

### Disclaimer

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