

## Ground Aluminium Sulphate

### 1. Identification of the substance/preparation and of the company/undertaking

**1.1 Product Identifier** Aluminium Sulphate

**1.2 Relevant Identified uses of the substance or mixture and uses advised against**

Uses: Coagulant for water treatment

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

Company: Complete Pool Controls Ltd  
Unit 2, The Park  
Stoke Orchard  
Bishops Cleeve  
Gloucestershire  
GL52 7RS

Telephone: +44 (0) 8712 229081

Fax: +44 (0) 8712 229083

E-mail: [sales@cpc-chemicals.co.uk](mailto:sales@cpc-chemicals.co.uk)

**1.4 Emergency Telephone**

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 3712 229084 (outside of office hours)

### 2. Hazard Identification

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Hazard Class	Hazard Category	Hazard Statements
Serious eye damage / eye irritation	Category 1	H318

For the full text of the H statements mentioned in this section see Section 16.

**Most important adverse effects**

Human Health: See section 11 for toxicological information  
Physical & Chemical Hazards: See section 9 for physicochemical information  
Potential environmental effects: See section 12 for environmental information

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols:



Signal word: Danger

Hazard statements: H318 Causes serious eye damage

Precautionary statements: P280 - Wear eye/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.

**Hazardous components which must be listed on the label**

Aluminium Sulphate

**2.3 Other Hazards** No other information is available

### 3. Composition/information on ingredients

#### 3.1 Substances

Chemical nature: Granules

Chemical Name	EC No:	CAS No:	%	Hazards
Aluminium Sulphate	233-135-0	10043-01-3	17	H318

This product has workplace exposure limits

### 4. First Aid measures

#### 4.1 Description of first aid measures

General Advice: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. No hazards which require special first aid measures.

If inhaled: If dust from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention if required

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Call a physician or Poison Control Centre immediately

If swallowed: If ingestion of a large amount does occur, seek medical attention. Rinse mouth with water

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

Symptoms: No further information available

Effects: No further information available

#### 4.3 Indication of immediate medical attention and special treatment needed

Treatment In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation  
Symptoms may be delayed

### 5. Fire fighting measures

#### 5.1 Extinguishing media:

Suitable media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable media: High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: Incomplete combustion may form toxic pyrolysis products

#### 5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Further Information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. Accidental release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Use appropriate personal protective equipment as detailed in section 8.

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.

### 6.2 Environmental precautions

Environmental precautions: No special environmental precautions required

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

Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas.

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up.

After removal flush contaminated area thoroughly with water. This material and its container must be disposed of as hazardous waste.

### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Do not mix with other products in their concentrated form.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

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

Storage areas and containers: Prevent any seepage into the ground

Protection against fire : No special measures required

Further information: Store in cool, dry conditions in well sealed receptacles

Common storage: Keep away from food, drink and animal feedstuffs.

Storage Temperature: No further information available

### 7.3 Specific end uses

Specific use(s) Coagulant for water treatment

**8. Exposure control/personal protection****8.1 Control parameters**

Material	Type	Value	Form
Aluminium Sulphate 10043 - 01 - 3	TWA	2 mg/m <sup>3</sup>	Soluble aluminium salts

**8.2 Exposure controls**

**Engineering measures** Refer to protective measures listed in sections 7 and 8

DNEL Components	Type	Route	Value	Form
Aluminium sulphate (10043-01-3)	Consumer	Oral	0.3 mg/kgbw/day	as Al
		Oral	3.7 mg/kgbw/day	as substance
		Oral	5.7 mg/kgbw/day	as substance
		Oral	0.5 mg/kgbw/day	as Al

**Personal protective equipment**

Ventilation:

Advice: Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory protection

- In case of inadequate ventilation wear respiratory protection
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374. (PVC or plastic)
- Wear safety glasses approved to standard EN 166.
- Wear apron or other light protective clothing

Hygiene measures

Advice: Do not breathe dust. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls**

General advice: Do not flush into surface water or sanitary sewer systems

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form:	Solid
Physical state	Powder or granules
Colour:	White
Odour:	Insignificant
pH @ 20°C:	N/A
Melting point:	120 - 140 °C (248 - 284 °F)
Boiling point:	770 °C (1,418 °F) Decomposes
Flash point:	N/A
Density @ 20°C:	1.61 g/cm <sup>3</sup>
Water solubility:	Fully miscible

**9.2 Other Information**

Specific gravity 1.609960996 estimated

**10. Stability and reactivity****10.1 Reactivity**

Advice: Avoid contact with chlorite/hypochlorite/sulphite/oxidising agents and cyanides.

**10.2 Chemical stability**

Advice: No decomposition if stored and applied as directed

**10.3 Possibility of hazardous reactions**

Hazardous reactions: Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

Conditions to avoid Water

**10.5 Incompatible materials**

Materials to avoid Alkalis

**10.6 Hazardous decomposition products**

Haz. Decomp. products: Sulphur Oxides Heating may cause toxic fumes

**11. Toxilogical Information****Information on likely routes of exposure**

Ingestion Not applicable  
 Inhalation Inhalation of dusts may cause respiratory irritation.  
 Skin contact Irritating to skin  
 Eye contact Irritating to eyes  
 Sensitisation No sensitizing effect known

**11.1 Information on toxilogical effects**

Acute toxicity Not classified

**Product**

Aluminium Sulphate 17% (solid)

**Test results**

Acute Dermal LD50 Rat: 2,000 mg/kg estimated  
 Acute Oral LD50 Rat: 2,000 mg/kg estimated

**Components**

Aluminium sulphate (10043-01-3)

**Test results**

Acute Dermal LD50 Rat:  $\geq$  5,000 mg/kg  
 Acute Dermal LD50 Rat:  $\geq$  2,000 mg/kg  
 Acute Oral LD50 Rat:  $\geq$  5,000 mg/kg  
 Acute Oral LD50 Rat:  $\geq$  2,000 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Not classified
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage. Dust in the eyes will cause irritation.
<b>Respiratory sensitisation</b>	Not classified.
<b>Skin sensitisation</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organotoxicity - single exposure</b>	Not classified.
<b>Specific target organotoxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.
<b>Mixture versus substance information</b>	None known.
<b>Other information</b>	None known.

**12. Ecological Information****12.1 Toxicity****Components**

Aluminium sulphate (10043-01-3)

**Test results**

LC50 Danio (Danio): &gt;= 1,000 mg/l 96.00 hours

NOEC Danio (Danio): &gt;= 1,000 mg/l 96.00 hours

EC50 Daphnia: &gt;= 160 mg/l 48.00 hours immobilisation

NOEC Daphnia: &gt;= 160 mg/l 48.00 hours

\* Estimates for product may be based on additional component data not shown.

**12.2 Persistence and degradability**

Product solely consists of inorganic compounds which are not biodegradable.

**12.3 Bioaccumulative potential**

Not assigned.

**12.4 Mobility in soil**

Not assigned.

**12.5 Results of PBT and PvB assessment**

Not assigned.

**12.6 Other adverse effects**

Do not flush into surface water or sanitary sewer system

**13. Disposal Considerations****13.1 Waste treatment methods**

Residual waste

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services

Contaminated packaging:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

EU waste code

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

Product:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not dispose of waste into sewer. Dispose of contents/container in accordance with regulations

**14. Transport Information****14.1 UN Number**

Not classified for transportation.

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.****15.2 Chemical Safety Assessment**

Currently we do not have any information from our supplier about this.

**16. Other information**

Full text of H-statements referred to under sections 2 and 3

H315	Causes skin irritation
H318	Causes serious eye damage
H355	May cause respiratory irritation.

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

█ Indicates updated section









