



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

### 1.1 Product Identifier

Trade Name: Aluminium Sulphate Kibbled  
 CAS No: 10043 - 01 - 03  
 EC No: 233 - 135 - 0

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

Uses: Coagulant for water treatment  
 Restrictions: At this time we do not have information on use restrictions

### 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) 1242 300271 (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	Target Organs	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.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant (Xi)	R41

For the full text of the R phrases 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

(continued on Page 2)

**2. Hazard Identification continued****2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

Precautionary statements:

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection

Reponse: P305+351+338: Rinse continuously 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

**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:	%	REACH Registration	Hazards
Aluminium Sulphate	233-135-0	10043-01-3	47	01-2119531538-36	H318 / R41

# 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 &amp; 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.

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice.

**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 extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing 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
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### 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:	No unusual fire or explosion hazards noted.

## 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
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### 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.

**Trade Name:** Aluminium Sulphate

## 7. Handling and storage

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

Requirements for storage areas and containers: Prevent any seepage into the ground

Advice on protection against fire and explosion: No special measures required

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

Advice on 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	Type	Route	Value	Form
<b>Components</b> 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.

Eye protection

Advice: Tightly fitting safety goggles

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
- 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
Odour Threshold:	Currently we do not have any information from our supplier about this.
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
Evaporation rate:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	Currently we do not have any information from our supplier about this.
Upper explosion limit:	Currently we do not have any information from our supplier about this.
Lower explosion limit:	Currently we do not have any information from our supplier about this.
Vapour pressure:	Currently we do not have any information from our supplier about this.
Relative vapour density:	Currently we do not have any information from our supplier about this.
Density @ 20°C:	1.61 g/cm <sup>3</sup>
Water solubility:	Fully miscible
Partition coefficient:n-octanol/water:	Currently we do not have any information from our supplier about this.
Ignition temperature:	Currently we do not have any information from our supplier about this.
Thermal decomposition:	Currently we do not have any information from our supplier about this.
Viscosity, kinematic:	Currently we do not have any information from our supplier about this.
Explosive properties:	Currently we do not have any information from our supplier about this.
Oxidising properties:	Currently we do not have any information from our supplier about this.

**9.2 Other Information**

Specific gravity	1.609960996 estimated
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**10. Stability and reactivity****10.1 Reactivity**

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

**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 Avoid spread of dust

**10.5 Incompatible materials**

Materials to avoid Alkalis

**10.6 Hazardous decomposition products**

Hazardous decomposition products: Sulphur Oxides Heating may cause toxic fumes

**11. Toxicological Information**

Information on likely routes of exposure

Ingestion Not applicable  
 Inhalation Inhalation of dusts may cause respiratory irritation.  
 Skin contact Not applicable  
 Eye contact Causes serious eye damage

**11.1 Information on toxicological 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.

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

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

Aluminium sulphate (10043-01-3)

**Test results**

LC50 Danio (Danio):  $\geq 1,000$  mg/l 96.00 hours  
 NOEC Danio (Danio):  $\geq 1,000$  mg/l 96.00 hours  
 EC50 Daphnia:  $\geq 160$  mg/l 48.00 hours immobilisation  
 NOEC Daphnia:  $\geq 160$  mg/l 48.00 hours

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

<b>12.2 Persistence and degradability</b>	Product solely consists of inorganic compounds which are not biodegradable.
<b>12.3 Bioaccumulative potential</b>	Not assigned.
<b>12.4 Mobility in soil</b>	Not assigned.
<b>12.5 Results of PBT and PvB assessment</b>	Not assigned.
<b>12.6 Other adverse effects</b>	Do not flush into surface water or sanitary sewer system

**Trade Name:** Aluminium Sulphate

### 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	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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

#### 14.2 UN proper shipping name

ADR: Aluminium Sulphate  
RID: Aluminium Sulphate  
IMDG: Aluminium Sulphate

#### 14.3 Transport hazard class(es)

ADR / RID / IMDG Not regulated as dangerous goods.

#### 14.4 Packaging Group

ADR / RID / IMDG Not regulated as dangerous goods.

#### 14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR:  
Labelling according to 5.2.1.8 RID:  
Labelling according to 5.2.1.8 IMDG:  
Classification as environmentally hazardous according to 2.9.3 IMDG:

**14.6 Special precautions for user** No information available.

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

IMDG: No information available.

### 15. Regulatory information

**15.1 Safety, health and environemntal regulations/legislation specific for this substance or mixture.**

#### 15.2 Chemical Safety Assessment

Currently we do no have any information from our supplier about this.

**16. Other information**

Full text of R-phrases referred to under sections 2 and 3  
R41 Risk of serious damage to eyes

Full text of H-statements referred to under sections 2 and 3  
H318 Causes serious eye damage

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.

**• Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)  
ICAO: International Civil Aviation Organization  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS European Inventory of Existing Commercial Chemical Substances.  
CAS: Chemicals Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

█ Indicates updated section