

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

1.1 Product Identifier

Trade Name: Aluminium Sulphate
Other Names: Kibbled or Ground Aluminium Sulphate/Granular Floc
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

1.4 Emergency Telephone Tel: +44 (0) 8712 229081 (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
	STOT SE3		H335
Eye Irritation	Category 2		H319
Skin Irritation	Category 2		H315

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)	R36/37/38

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: Warning

Hazard statements: H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

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
 P401: Store locked up

Reponse:

P101 If medical advice is needed, have product or label to hand.
 P102 Keep out of reach of children

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P401 Store in accordance with local/national/ international regulations
 P501 Dispose of contents / container in accordance with local/national/international regulations

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	Identification Numbers	Amount %
Aluminium Sulphate	EC NO: 233 - 135 - 0 CAS NO: 10043 - 01 - 3	47 - 57%

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.
 If inhaled: Not normally applicable but as a precaution remove to fresh air and keep patient warm.
 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.
 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 Treat symptomatically
 No further information available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Will not burn, use media appropriate for surrounding material.

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: Thermal decomposition (>600°C) may liberate SO_x fumes.

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: Dispose of fire debris & contaminated fire fighting water in accordance with local regulations.
Collect fire fighting water separately. it must not enter 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.

6.2 Environmental precautions

Environmental precautions: Do not let product enter drains, contain the material and sweep up.

6.3 Methods and materials for containment and cleaning up

on ground: Flush with plenty of water, if possible neutralise with lime.

on water: Inform police and/or fire brigade and appropriate authority

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.

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) No information available

Trade Name: Ground Aluminium Sulphate

8. Exposure control/personal protection

8.1 Control parameters

Component: Aluminium Sulphate

Other OELs

CAS No: 10043 - 01 - 3

8 hr TWA
ppm mg/m³
 2

8.2 Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Ventilation:

Advice: No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that dusts are minimised.

Respiratory protection Not required

Advice: Not required

Hand protection

Advice: The glove material has to be impermeable to the product/the substance/preparation. Take note of the information given by the producer concerning permeability, break through times, and of special and of special working conditions (mechanical strain, Protective gloves should be replaced at first sign of wear.

Eye protection Advice: Tightly fitting safety goggles

Skin and body protection

Advice: acid resistant protective clothing

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
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:	770°C
Boiling point:	N/A
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.

9. Physical and chemical properties continued

Density @ 20°C:	1690
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 No further information available

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: Thermal decomposition (>600°C) may liberate SO_x fumes.

10.4 Conditions to avoid

Conditions to avoid No information available

10.5 Incompatible materials

Materials to avoid Galvanised or aluminium surfaces

10.6 Hazardous decomposition products

Hazardous decomposition products: Currently we do not have any information from our supplier about this.

11. Toxicological Information**11.1 Information on toxicological effects**

Component: Aluminium Sulphate

CAS No: 10043 - 01 - 3

**Acute toxicity
Oral**

Value type LD50
Value >5,000 mg/kg
Species Rat

**Acute toxicity
Intrapetrioneal**

Value type LD50
Value 6,207 mg/kg
Species mouse

**Irritation
Skin**

Remarks: Causes skin irritation and soreness

Eyes

Remarks: Causes severe eye irritation.

Oral

Remarks: Gastric irritation, nausea, vomiting if large doses swallowed

Inhalation

Remarks: Irritating to mucous membranes and upper respiratory tract.

12. Ecological Information

12.1 Toxicity

Component: Aluminium Sulphate

CAS No: 10043 - 01 - 3

Acute toxicity Fish

Remark Expected to be harmful

Toxicity to daphnia and other aquatic invertebrates

Remark Expected to be harmful

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 Results of PBT and PvB assessment No data available

12.6 Other adverse effects

Additional ecological information

On contact with water, aluminium sulphate will hydrolyse to give dilute sulphuric acid and gelatinous aluminium hydroxide.

Discharge to the aquatic environment should be avoided since it may lead to localised adverse effects arising from the products physical properties. The clogging of tentacles, gills and filters of suspension feeders and the modification of the photosynthesis of algae and plankton may result from the presence of suspended particles and turbidity.

The product is an inorganic substance/preparation. During hydrolisation, a precepeate is formed of metal hydroxide in the pH range 5 to 7. Due to this reaction the pH in the water phase decreases, If phosphates are present, metal phosphate complex may form.

13. Disposal Considerations

13.1 Waste treatment methods

Product: 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 packaging's 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.

European Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

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 Class Not Classified
RID Class Not Classified
IMDG Class Not Classified

14.4 Packaging Group

ADR: Not Classified
RID: Not Classified
IMDG: Not Classified

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 data available

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

IMDG: No data available

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 R-phrases referred to under sections 2 and 3

R36/37/38 Irritating to eyes, respiratory system and skin

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

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 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.

• 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

Revision	Date	By	Amendment
3	15/04/11	Linda Brueford	GHS label elements added and other minor editorial amendments
2	Jun-09	Linda Brueford	Updated to conform with REACH, references to legislation changed
1	21/11/2008	Linda Brueford	Sections 2 & 3 Swapped