SAFETY DATA SHEET



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

1.1 Product Identifier Granular Floc

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

Uses: Coagulant for water treatment

Restrictions: None known

1.3 Details of the supplier of the safety data sheet

Complete Pool Controls Ltd Company:

Unit 2. The Park Stoke Orchard **Bishops Cleeve** Gloucestershire GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083

sales@cpc-chemicals.co.uk E-mail:

1.4 Emergency Telephone

+44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours) Tel:

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 eve damage / eve 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 toxilogical information Physical & Chemical Hazards: See section 9 for physicochemical information Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Hazard symbols:

Labelling according to Regulation (EC) No 1272/2008

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 CAS No: EC No: % Hazards Aluminium Sulphate 233-135-0 10043-01-3 17 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 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 and effects: No further information available

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

4.3

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: Incomplete combustion may form toxic pyrolysis products

5.3 Advice for firefighters

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

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

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin

Advice on safe handling: 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.

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should Hygiene be prohibited in the application area. Wash hands before breaks and at the end of the work

measures: 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 incompatabilities.

Storage Areas Prevent any seepage into the ground

Fire and explosion
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/m³ Soluble aluminium salts

8.2 Exposure controls

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

Aluminium sulphate (10043-01-3)

DNEL	Type	Route	Value		Form
	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 should be sufficient to effectively remove and prevent buildup of any dusts or

Ventilation: 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 insufficient ventilation wear suitable respiratory equipment.

Hand protection

Wear protective gloves. The selected protective gloves have to satisfy the specifications of

EU Directive 89/686/EEC and standard EN 374.

Eye protection Tightly fitting safety goggles (EN166). Emergency eyewash stations must be available.

Skin and body protection Protective work clothing

Hygiene measures Do not breathe dust.

Do not get in eyes. Handle in accordance with good industrial hygiene and safety practises

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/cm3
Water solubility: Fully miscible

9.2 Other Information

Specific gravity 1.609960996 estimated

10. Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Chemical stability 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 furmes

11. Toxilogical Information

11.1 Information on toxilogical effects

Acute toxicity Not classified

Product Test results

Aluminium Sulphate 17% (solid) Acute Dermal LD50 Rat: 2,000 mg/kg estimated

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

Components Test results

Aluminium sulphate (10043-01-3)

Acute Dermal LD50 Rat: >= 5,000 mg/kg

Acute Dermal LD50 Rat: >= 2,000 mg/kg Acute Oral LD50 Rat: >= 5,000 mg/kg Acute Oral LD50 Rat: >= 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

Skin sensitisation

Skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organtoxicity - single exposure

Not classified.

Not classified.

Not classified.

Not classified.

Not classified.

Not classified.

(continued on Page 5)

11. Toxilogical Information

11.1 Information on toxilogical effects

Specific target organtoxicity - repeated Not classified.
Aspiration hazard Not classified.
Mixture versus substance information None known.
Other information None known.

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

12. Ecological Information

12.1 Toxicity

Components Test results

Aluminium sulphate (10043-01-3) LC50 Danio (Danio): >= 1,000 mg/l 96.00 hours

NOEC Danio (Danio): >= 1,000 mg/l 96.00 hours EC50 Daphnia: >= 160 mg/l 48.00 hours immobilisation

NOEC Daphnia: >= 160 mg/l 48.00 hours

12.2 Persistence and degradability

Persistence and degradability: Product solely consists of inorganic compounds which are not biodegradable.

12.3 Bioaccumlative potential

Bioaccumlative potential Not assigned.

12.4 Mobility in soil

Mobility in soil Not assigned.

12.5 Results of PBT and PvB:

PBT and PvB: 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

- -Disposal should be in accordance with local, state or national legislation
- -Do not reuse empty containers without commercial cleaning or reconditioning
- -Do not discharge into drains or the environment ,dispose to an authorised waste collection point

Classification

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

^{*} Estimates for product may be based on additional component data not shown.

14. Transport Information

This product is not classified as hazardous for transport purposes.

14.1 UN Number Not applicable

14.2 UN proper shipping name Not applicable

14.3 Transport hazard class(es) Not applicable

14.4 Packaging Group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15. Regulatory information

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

15.2 Chemical Safety Assessment

No information available

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.

Abbreviations and acronyms:

Revision 5

Indicates updated section