

SAFETY DATA SHEET  
Revision 6

**Granular FLOC**

**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
- 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 Statements
Met.Corr.1	H290
Eye Dam.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:	H290	May be corrosive to metals
	H318	Causes serious eye damage

Precautionary statements:	P102-	Keep out of the reach of children
	P280 -	Wear protective gloves/protective clothing/eye protection/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.
	P501 -	Dispose of contents/container in accordance with national 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	EC No:	CAS No:	%	Hazards
Aluminium Sulphate	233-135-0	10043-01-3	17	Met.Corr:1 ;H290, Eye.Dam;1; 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 and 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 : 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**

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: 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/m <sup>3</sup> 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: 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 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/cm <sup>3</sup>
Water solubility:	Fully miscible

**9.2 Other Information**

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

**10.1 Reactivity**

Reactivity	Avoid contact with chlorite/hypochlorite/sulphite/oxidising agents and cyanides.
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**10.2 Chemical stability**

Chemical stability	No decomposition if stored and applied as directed
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**10.3 Possibility of hazardous reactions**

Hazardous reactions:	Hazardous polymerisation does not occur.
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**10.4 Conditions to avoid**

Conditions to avoid	Water
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**10.5 Incompatible materials**

Materials to avoid	Alkalis
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**10.6 Hazardous decomposition products**

Haz. Decomp. products:	Sulphur Oxides	Heating may cause toxic fumes
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**11. toxicological Information**

**11.1 Information on toxicological effects**

Acute toxicity	Not classified
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**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: >= 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	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.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Specific target organotoxicity - repeated exposure	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

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.

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

Bioaccumulative 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

**14. Transport Information**

This product is not classified as hazardous for transport purposes.

<b>14.1 UN Number</b>	Not applicable
<b>14.2 UN proper shipping name</b>	Not applicable
<b>14.3 Transport hazard class(es)</b>	Not applicable
<b>14.4 Packaging Group</b>	Not applicable
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	Not applicable
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable

**15. Regulatory information**

**15.1 Safety, health and environmental 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

H290 May be corrosive to metals

H318 Causes serious eye damage

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

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.

P501 - Dispose of contents/container in accordance with national regulations.

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