



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

1.1 Product Identifier
 Chemical Granular Flocc
 Weight 2 kg
 Code CLAFLO2CK

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

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

(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
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 Mixtures**

Chemical Name	CAS No:	EC No:	%	H & R Phrases
Aluminium Sulphate	10043-01-3	233-135 0	47-57	H315:H319:H335 - R36/37/38

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 neededTreatment Treat symptomatically
No further information available

5. Fire fighting measures

- 5.1 Extinguishing media:** Will not burn, use media appropriate for surrounding material.
- 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** In the event of fire, wear self-contained breathing apparatus.
- 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 : Prevent any seepage into the ground
Advice on protection against fire : 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** No information available

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

Aluminium Sulphate	
8 hr TWA	
ppm	mg/m ³
	2

8.2 Exposure controls

Engineering measures Engineering controls should be provided which maintain airborne concentrations as low as practicable

Personal protective equipment

Ventilation: 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 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)

Skin and body protection Acid resistant protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems. Avoid subsoil penetration.

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

Form: Solid
 Colour: White
 Odour: Insignificant

pH @ 20°C: N/A

Melting point: 770°C
 Boiling point: N/A
 Flash point: N/A
 Density @ 20°C: 1690
 Water solubility: Fully miscible

9.2 Other Information No further information available

10. Stability and reactivity

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

10.2 Chemical stability No decomposition if stored and applied as directed

10.3 Possibility of hazardous reactions Thermal decomposition (>600°C) may liberate SO_x fumes.

10.4 Conditions to avoid No information available

10.5 Incompatible materials Galvanised or aluminium surfaces

10.6 Hazardous decomposition products No information available

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

Route	Species	Test	Value	Units
Oral	Rat	LD50	>5,000	mg/kg
Intrapetroneal	Mouse	LD50	6,207	mg/kg

Primary Irritant effect

On the skin: Causes skin irritation and soreness

On the eye: Causes severe eye irritation.

Carcinogenic There is no evidence that this substance has any carcinogenic properties.

Mutagenic There is no evidence that this substance is mutagenic

Sensitization: No sensitizing effects known

Additional toxicological information:

If ingested The ingestion of significant quantities may cause nausea/vomiting

If inhaled Irritating to mucous membranes and upper respiratory tract.

12. Ecological Information

12.1 Toxicity 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

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 hydrolysis, a precipitate 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**

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

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	Clean up even minor leaks or spills if possible without unnecessary risk
14.6 Special precautions for user	See Section 7
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 environmental regulations/legislation specific for this substance or mixture.**

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment

No further information

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.

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

Revision	Date	By	Amendment
1	21/11/2008	Linda Brueford	Sections 2 & 3 Swapped
2	Jun-09	Linda Brueford	Updated to conform with REACH, references to legislation changed
3	15/04/11	Linda Brueford	GHS label elements added and other minor editorial amendments
4	19/11/13	Linda Brueford	Minor editorial amendments