



SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: **Granular Flocculant**
Datasheet Number: SP412 1.0.0
Product Part Number: SP412
Chemical Name: Aluminium Sulphate 14-Hydrate
CAS No.: 10043-01-3

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

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Total Pool Chemicals Ltd
Address of Supplier: Unit 1, Pool Bank Business Park
High Street, Tarvin
Chester CH3 8JH
UK
Telephone: +44 (0)1829 740290
Fax: +44 (0)1829 741855
Responsible Person: Steve Carder
Email: sales@totalpool.co.uk

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification**2.1 Classification of the substance or mixture**

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Eye Dam. 1, H318
- Classification (67/548/EEC, 1999/45/EC)
- Xi; R41

2.2 Label elements

- Signal Word: Danger
- Symbols: GHS05

Hazard phrases

- Causes serious eye damage.

Precautionary Phrases

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to



2 Hazards identification (....)

- do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.
- Store in corrosion resistant container.

2.3 Other hazards

- Mildly irritating to respiratory system
- Mildly irritating to skin

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols	Index No.
Aluminium Sulphate 14-Hydrate	90-100%	10043-01-3	233-135-0	R41 H318	Xi GHS05	

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN: Gently wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Get medical advice/attention if you feel unwell.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

- Mildly irritating to respiratory system
- Mildly irritating to skin

4.3 Indication of immediate medical attention and special treatment needed

- None

5 Fire-fighting measures

5.1 Extinguishing media

- This product is not flammable
- Use personal protective equipment

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

- Wear protective clothing as per section 8

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
- Use personal protective equipment



6 Accidental release measures (...)

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- Do not allow to penetrate the ground/soil.
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Clean up methods - small spillage
- Absorb spillage in inert material and shovel up
- Clean up methods- large spillage
- Use vacuum cleaner to collect spilled material

6.4 Reference to other sections

- See Section 7 & 8

7 Handling and storage

7.1 Precautions for safe handling

- Do not breathe dust/fume/gas/mist/vapours/spray.

7.2 Conditions for safe storage, including any incompatibilities

- Protect from moisture.
- Store in a dry place.
- Store in plastic container.

7.3 Specific end use(s)

- No information available

8 Exposure controls/personal protection

8.1 Control parameters

- WEL (long term) 2 mg/m³

8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

Occupational exposure controls

- Wear protective gloves/protective clothing/eye protection/face protection.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask



Gloves



Goggles



Suit



Respirator

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Very small
- Appearance: Solid- white granules
- pH 3 at 10 % concentration
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point - not known



9 Physical and chemical properties (....)

- Completely soluble in water
- Fat solubility - not applicable
- Specific gravity - not known
- Non-combustible solid
- Auto-ignition point - not applicable
- Non-explosive
- Log Pow - not known
- Evaporation rate - not applicable
- Viscosity - not known

9.2 Other information

- Bulk density 950-990 kg/m³

10 Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- No information available

10.3 Possibility of hazardous reactions

- No information available

10.4 Conditions to avoid

- Avoid contact with moisture

10.5 Incompatible materials

- Avoid contact with unalloyed steel or galvanised surfaces.

10.6 Hazardous Decomposition Products

- Decomposition products may include sulphur oxides

11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 5 mg/kg
- LD50 (skin, rabbit) 5 mg/kg
- Irritation to eyes (rabbit) : Severe
- Irritation to skin (rabbit) : None

Inhalation

- Causes coughing
- Causes breathing difficulty

Contact with skin

- In cases of severe exposure, irritation may develop

Contact with eyes

- Causes pain
- Severe lachrymatory effects (makes eyes water)
- Can cause damage to the eyes

Ingestion

- May cause nausea/vomiting



11 Toxicological information (....)

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No evidence of reproductive effects

Mutagenicity

- No evidence of mutagenic effects
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12 Ecological information

12 .1 Toxicity

- LC50 (fish) >1 mg/l (96 hr)
- EC50 (Daphnia magna) 160 mg/l (48 hr)

12 .2 Persistence and degradability

- No information available

12 .3 Bioaccumulation Potential

- No information available

12 .4 Mobility in soil

- Completely soluble in water

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12 .6 Other Adverse Effects

- Presents little or no hazard to the aquatic environment
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13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
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14 Transport information

14.1 UN Number

N/A

14.2 UN Proper Shipping Name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14 .5 Environmental hazards

- Presents little or no hazard to the environment
-



14 Transport information (....)

14 .6 Special precautions for user

- No special precautions are required for this product

14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	N/A	ADR UN No.:	N/A
ADR Hazard Class:	N/A	ADR Packing Group:	N/A
Tunnel Code:	N/A		

Sea (IMDG)

Proper Shipping Name:	N/A	IMDG UN No.:	N/A
IMDG Hazard Class.:	N/A	IMDG Pack Group.:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	N/A	ICAO Un No.:	N/A
ICAO Hazard Class.:	N/A	ICAO Packing Group.:	N/A

15 Regulatory information

15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- The List of Wastes (England) Regulations 2005 apply in the UK
- Not hazardous according to current CPL Regulations

15 .2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- H318: Causes serious eye damage.; R41: Risk of serious damage to eyes.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.