

# SAFETY DATA SHEET

**Product Name:** Granular Flocculant

**1. Chemical product and company identification**

Product name	Granular Flocculant
Chemical name	Aluminium Sulphate
Product type and use	Swimming pools
Company identification	Swimmingpoolchemicals
Address and telephone number	Unit 5, Pool Bank Park High Street, Tarvin, Chester CH3 8JH
Emergency telephone number	01829 740290

**2. Composition/Information on ingredients**

Chemical Name	CAS No	Content %	Symbol	R-phrase(s)
Aluminium Sulphate	10043-01-03	55	Xi	36/37/38
Water		45		

**3. Hazards identification**

Main risks	May cause irritation to skin and mucous membranes
Inhalation	May cause irritation
Skin contact	May cause skin irritation, eg redness, eczema
Contact with eyes	May cause irritation
Ingestion	May cause sickness and vomiting
Environmental risks	The product can hydrolyse and form a precipitate of metal hydroxide, when diluted beyond a particular level. The solubility of the aluminium depends on the pH value.

**4. First-aid measures**

Inhalation	Fresh air, resting
Skin contact	Wash skin with plenty of water
Contact with eyes	Flush with plenty of water
Ingestion	Give water to drink. Call a physician

**Product Name:** Granular Flocculant

**5. Fire-fighting measures**

- Suitable

Specific hazards

- Protective equipment

Will not burn, use media appropriate for surrounding material

Thermal decomposition (> 650EC) may cause SO<sub>x</sub> fumes

Use suitable safety equipment

**6. Accidental release measure**

Personal precautions:

Use appropriate protective clothing

Environmental precautions:

Do not let product enter drains

Methods for cleaning up:

- on ground

Flush with plenty of water, if possible neutralise with lime

- on water

Inform police and/or fire brigade

**7. Handling and Storage**

Storage conditions

Containers should be of acid resistant material

Storage stability

Unlimited (in a dry place)

Technical protective measures

Handle in accordance with good industrial hygiene and safety practice

**8. Exposure controls/Personal Protection**

Engineering measures to reduce exposure

When handling, the working area and methods should be designed to prevent direct contact with the product and inhibit dust and/or splash.

Personal protective equipment

- Inhalation

Dust filter

- Skin

Protective clothing, rubber or plastic gloves

- Eye protection

Safety glasses with side-shields. Equipment for eye rinsing

TLV (US)<sup>1</sup>

2 mgAl/m<sup>3</sup>

**9. Physical and chemical properties**

Form

White, granular, solid

Odour

Insignificant

PH (conc)

Approx 3 in 10% (w/w) aqueous solution

Boiling temperature (EC)

110 – 120

Melting/decomposition temp (EC)

650

Flashpoint (EC)

None

Bulk density (kg/m<sup>3</sup>)

950 – 990

Solubility in water (weight %)

Approx 45% at 20 EC

Solubility in organic solvents

None

Log P<sup>ow</sup>

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**Product Name:** Granular Flocculant

**10. Stability and Reactivity**

Conditions to avoid:	Humid conditions during storage
Materials to avoid:	Unalloyed steel
Hazardous decomposition products	Thermal decomposition (>650EC), may release SO <sub>x</sub> fumes

**11. Toxicological Information**

Oral LD <sub>50</sub> , rat (mg/kg)	6207
Intraperitoneal LD50, mouse (mg/kg)	1735

Dust and/or splash irritates mucous membranes, eyes and respiratory organs

**12. Ecological Information**

LC50, Mosquito fish, 96 h, mg/l <sup>2</sup>	235
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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**

Waste from residues	Dilute with water, neutralise with lime
Contaminated packaging	Suitable dumping according to local regulations Destruction according to local regulations

**14. Transport Information**

Transport warning label	Not regulated
ADR	Not regulated
RID	Not regulated
IMO-IMDG code	Not regulated
IATA	Not regulated
UN No	Not regulated

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**15. Regulatory Information**

Labelling according to EU directives

Danger symbol(s)

Xi Irritant

R-Phrase(s)

R36 Irritating to eyes  
R37 Irritating to respiratory system  
R38 Irritating to skin

S-Phrase(s)

S26 In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 After contact with skin, wash immediately with plenty of water  
S37 Wear suitable gloves made of plastic or rubber

EINECS No

233-135-0

CAS No

16828-11-8

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.