

SAFETY DATA SHEET (SDS)

WASHBOX ROCKET CAPSULES – ALUMINIUM SULPHATE & POLYSILOXANE GRANULES

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- Product identifier:
Trade name: WashBox Rocket Capsules
Description: Solid granules in dissolvable film for use in water treatment in closed-loop wash stations.

Relevant identified uses:
Use as a coagulant/flocculant in washwater treatment to separate suspended solids.
Note: Designed for direct dosing into water in a closed system at 16 g capsule per 30 L water.

Details of the supplier:
Company: Geosentinel (UK) Ltd
Address: 71-75 Sheldon Street Covent Garden London WC2H 9JQ
Telephone: +44 790 382 489
Email: info@washbox.global

Emergency telephone number:
- UK (public access): NHS 111 – dial 111 (available 24 hours, for advice on chemical exposure or poisoning; will connect to National Poisons Information Service if required)
- Ireland (public access): National Poisons Information Centre – +353 1 809 2566 (8 am–10 pm daily)
- Australia Poisons Information Centre (national hotline) - 13 11 26 (Available 24/7 from anywhere in Australia)
- New Zealand National Poisons Centre (University of Otago, Dunedin) - 0800 764 766 (free call within NZ, 24/7) Known as “0800 POISON”

2: HAZARDS IDENTIFICATION

Classification of contents (as supplied in capsule):

- Skin Irrit. 2 – H315: Causes skin irritation
- Eye Dam. 1 – H318: Causes serious eye damage

Label elements (for concentrate in capsule):

Signal word: DANGER

Hazard pictogram: GHS05 – Corrosion



Hazard statements:

- H315: Causes skin irritation
- H318: Causes serious eye damage

Precautionary statements:

- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/eye 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 CENTRE/doctor
- P302+P352: IF ON SKIN: Wash with plenty of water
- P332+P313: If skin irritation occurs: Get medical advice/attention

Other hazards:

- Generates acidic solution (pH ~3) when dissolved in water
- Avoid inhalation of dust if capsule is damaged
- NFPA 704 rating: Health 2, Flammability 0, Reactivity 0

Dilution hazard reassessment (intended use):

When 16 g of product is diluted into ≥ 30 L of water in a closed system:

- Aluminium sulphate concentration $\approx 0.048\%$ w/w
- Below classification thresholds for Skin Irritation Cat. 2 and Eye Damage Cat. 1 under GHS/CLP criteria
- Resulting solution is not classified as hazardous in normal use

3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC Number	CAS Number	% w/w
Aluminium sulphate (granular)	10043-01-3	233-135-0	90
Polysiloxane (granular)	63148-62-9	Polymer	10
Dissolvable film (PVA or similar)	Proprietary	-	<1

4: FIRST AID MEASURES

Inhalation: Move to fresh air. Seek medical advice if symptoms persist.

Skin contact: Remove contaminated clothing. Wash with soap and water.

Eye contact: Rinse cautiously with water for at least 15 minutes. Seek immediate medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice.

Advice for medical personnel: Symptomatic treatment. Acidic nature in concentrate form.

5: FIREFIGHTING MEASURES

- Non-combustible – use extinguishing media suitable for the surrounding fire
- Do not apply water directly to the solid, as heat and sulfuric acid may form
- Hazardous decomposition products include aluminium oxide and sulfur oxides
- Firefighters should wear self-contained breathing apparatus

6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear gloves and goggles if handling damaged capsules. Avoid dust inhalation.

Methods for containment and cleaning:

- Use vacuum methods to minimise dust — do not dry sweep
- Collect powders into sealed containers for disposal
- For water spills, neutralise with agricultural lime, crushed limestone, or sodium bicarbonate
- Aluminium sulphate may be hazardous to aquatic life at high concentrations

7: HANDLING AND STORAGE

- Keep dry and tightly closed
- Avoid contact with moisture
- Keep away from strong bases (sodium hydroxide, potassium hydroxide) and from ammonia/amines
- Aluminium sulphate can be corrosive to metals in the presence of moisture
- Avoid creating dust when handling

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

- OSHA PEL: 5 mg/m³ respirable dust (as aluminium metal), 15 mg/m³ total dust (as aluminium metal) – 8-hr TWA
- NIOSH REL: 2 mg/m³ (as aluminium soluble salts) – 10-hr TWA
- ACGIH TLV: 1 mg/m³ respirable fraction (as aluminium metal) – 8-hr TWA (NIOSH REL is most relevant to aluminium sulphate)

Engineering controls: Adequate ventilation if handling damaged capsules.
PPE for concentrate handling: Goggles, nitrile gloves, P2 dust mask if airborne dust present.
PPE for diluted solution: None required in normal use.

9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: White/off-white granules in clear dissolvable film
- Odour: Odourless
- pH (1% solution): ~3 (concentrate), ~6-7 (diluted to 16 g/30 L)
- Solubility: Soluble in water
- Density: ~1.6 g/cm³

10: STABILITY AND REACTIVITY

Stable under normal storage and handling conditions. Avoid strong bases and reactive metals.

Decomposition products: Aluminium oxide, sulphur oxides.

11: TOXICOLOGICAL INFORMATION

Concentrate (capsule contents):

- Causes serious eye damage
- Causes skin irritation

Diluted (16 g/30 L solution):

- Not classified as hazardous by GHS/CLP thresholds

12: ECOLOGICAL INFORMATION

- Aluminium salts may affect aquatic organisms at high concentrations
- Hydrolyses in water to aluminium hydroxide
- Diluted in normal use to non-hazardous concentration

13: DISPOSAL CONSIDERATIONS

Dispose of damaged or unused capsules in accordance with local regulations.

Diluted, neutralised solution can be disposed of as non-hazardous wastewater where permitted.

14: TRANSPORT INFORMATION

Not regulated for transport under UN, ADR, IMDG, IATA.

15: REGULATORY INFORMATION

All components listed on AICS, EINECS, TSCA, and other major chemical inventories.
Classified according to GHS and compliant with REACH, CLP, OSHA HazCom 2012, and Australian WHS.

Prepared in accordance with GHS, REACH (EC) No. 1907/2006, CLP (EC) No. 1272/2008, UK REACH, OSHA HazCom 2012, and Australian WHS Regulations.

16: OTHER INFORMATION

Date of preparation: 20 JUNE 2025

Version: 1.0

The information in this SDS applies to the product as supplied and includes a hazard reassessment for intended use at 16 g per 30 L dilution in closed-loop systems, which results in a non-hazardous solution under GHS/CLP criteria. It is the responsibility of the downstream user to ensure use as directed.