

# Safety Data Sheet

## Aluminium Sulphate

BioLab U.K. Ltd  
Unit 4, Andoversford Industrial Estate  
Andoversford, Cheltenham  
Glos GL54 4LB  
Tel: +44 (0) 1242 820969 Fax: +44 (0) 1242 820180

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### 1 PRODUCT NAME

**Product Name:** Aluminium Sulphate  
**Other Names:** Granular Flocc, Kibbled Alum, Sparkle Tabs, Alumina

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### 2 COMPOSITION

Ingredients	Cas No.	Einecs No.	Phrases
Aluminium Sulphate	10043-01-3	233-135-0	R36/37/38 S1/2

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### 3 HAZARD IDENTIFICATION

On contact with moisture product will release sulphuric acid which causes severe irritation to skin, eyes etc. Will also affect aquatic organisms adversely if present in high concentrations.

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### 4 FIRST AID

**Skin Contact:** Immediately remove contaminated clothing and wash affected area thoroughly with soap and water. Seek medical attention if skin appears damaged.

**Eye Contact:** Wash out eye with plenty of water for at least 15 minutes and seek medical attention.

**Ingestion:** Rinse mouth out thoroughly with water, give plenty of water to drink and obtain medical attention immediately.

**Inhalation:** Not normally applicable but as a precaution remove to fresh air and keep patient warm.

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### 5 FIRE-FIGHTING MEASURES

Non-flammable

**Suitable Extinguishing Media:** All extinguishing agents can be used to our knowledge.  
**Decomposition Products:** Oxides of Sulphur and Aluminium.  
**Special Fire Fighting Equipment:** Self contained breathing apparatus.

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## 6 ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment as detailed in section 8.

**Spillages and Leaks:** Damp down slightly then vacuum or shovel up into labelled containers for disposal.

Dispose of in accordance with appropriate local regulations.

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## 7 HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Treat as weak acid and use in accordance with good occupational hygiene practices.

**Storage:** Keep product in supplied container when not in use and replace lid after use to prevent absorption of moisture.

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## 8 EXPOSURE CONTROL/PERSONAL PROTECTION

**Long Term Exposure Limit** 2mg/m<sup>3</sup> 8HR TWA

**Engineering Measures** Local mechanical exhaust ventilation

**PPE** **Hand/Skin:** Impervious Gloves

**Eyes:** Safety Goggles

**Respiratory:** Respirator for dust

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White Granular material or Lumpy Solid or tablets

**Odour:** None

**pH (50%w/w):** 1.9 - 2.4

**Melting Point:** Decomposes @ 770<sup>0</sup>C

**Density:** 1.69g/cm<sup>3</sup>

**Solubility:** Very soluble in water

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## 10 STABILITY AND REACTIVITY

Stable under normal conditions

**Materials to avoid** Strong alkalis, Chlorites, Hypochlorites, Sulphates and most metal surface EG. Galvanised metal, Aluminium. Copper, Zinc and their alloys.

**Decomposition products** Oxides of Sulphur.

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## 11 TOXICOLOGICAL INFORMATION

**Route of entry:** Inhalation, ingestion, skin and eyes.

**Acute oral toxicity:** LD50 (Oral, RAT) + 5000mg/kg

**Inhalation:** Risk is low with small quantities. Breathed dust will be irritating to respirator system.

**Skin:** Solid product non-irritant to intact skin. Particles and dust. However will be irritating.

**Eye:** Moderate irritant.

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## 12 ECOLOGICAL INFORMATION

**Mobility:** Soluble in water

On contact with water product will hydrolyse to produce Sulphuric Acid and Aluminium Hydroxide. Expected to be harmful to aquatic environment.

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## 13 DISPOSAL CONSIDERATIONS

**Substance:** Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

**Container:** As substance.

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## 14 TRANSPORT INFORMATION

UN No	)	
Primary Hazard	)	
Packing Group	)	Not Regulated
Hazard ID No	)	for Road Transport
Class	)	
ADR/RID Item No	)	
Hazchem	)	
(Emergency Action Code)	)	

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## 15 REGULATORY INFORMATION

Label Name	Aluminium Sulphate	
Hazard Symbol(s)	Irritant	
Risk Phrases	R36/37/38	Irritating to eyes, respiratory systems and skin.
Safety Phrases	S1/2	Keep locked up and out of reach of children.
	S26	In case 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.
	S37/39	Wear suitable gloves and eye/face protection.

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## 16 OTHER INFORMATION

**Recommended uses and restrictions:** No further information.

**Further information sources:**

Sources of key data used to compile Safety Data Sheet.

Approved supply list. Approved carriage list, EH40, ACIGH tables.

**The data in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1997, as amended, for the purpose of protecting the health and safety of industrial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.**

**This data sheet does not constitute a users assessment of the workplace risk as required by the Health and Safety at Work Act, COSHH, Management of Health and Safety at Work or other health and safety legislation.**