

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Goldifloc filter aid tablets

Revision number:	1	Date of issue:	16 th September 2003
Item number:	MGF/6	MSDS number:	087
Synonyms:	Aluminium sulphate hydrated, Alum		
Manufacturer:	Univar Ltd		
Manufacturer's address:	4 th Floor 46 Peckover Street Bradford West Yorkshire BD1 5BD		
Manufacturer's Phone Number:	0161 7417040		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EINECS	%	Symbol	R-Phrases
Al ₂ (SO ₄) ₃ .XH ₂ O	10043-01-3	2331350	57-57%	Xi	R36/37/38

3. HAZARDS IDENTIFICATION

Hazard Identification:	Eyes: Severe irritation, redness, soreness Skin: Severe irritation, soreness Ingestion: Gastric irritation, nausea, vomiting if large doses swallowed Inhalation: Irritation of nose, mouth and lungs
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4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air and obtain medical advice
Eyes:	Irrigate thoroughly for at least 15 minutes with cold water. Seek medical attention.
Skin:	Wash with plenty of water and seek medical attention if symptoms persist
Ingestion:	Wash out mouth thoroughly with water; give plenty of water to drink. Obtain prompt medical attention. Do not encourage vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	This product is not flammable. Use extinguisher suitable to surrounding fire conditions
Hazardous combustion products:	Toxic fumes are liberated above 600 deg C

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate PPE (see section 8)
Environmental Precautions and	Damp down spillage, vacuum or shovel up into labelled plastic

Clean-up Methods:	containers for disposal. Dispose of in accordance with Local Authority Regulations. NOTE: Do not allow large quantities to enter watercourse (see section 13)
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7. HANDLING AND STORAGE

Handling:	Treat as a weak acid substance. Observe good standards of industrial and personal hygiene and avoid all unnecessary contact. Wear appropriate PPE if there is a possibility of contact. In particular use respiratory protection if personal exposure may exceed the OEL level given in section 8. Wear goggles when handling large quantities.
Storage:	Keep dry. Avoid unsegregated storage with incompatible materials, e.g. cyanides, sulphides, carbonates. Avoid direct contact with galvanised or mild steel surfaces. As a solution can be stored long term in stainless steel, plastic or rubber lined mild steel tanks.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OEL:	The OEL (as detailed in EH40) for aluminium salts, soluble is 2mg/m ³ 8hr TWA
Respiratory protection:	Use local exhaust ventilation to maintain dust levels below OEL. If for any reason this is not possible use a BS6016 type 2 orinasal dust respirator.
Skin and body protection:	Use normal work wear. An apron or over-clothing may be necessary depending on conditions of handling.
Hand protection:	PVC or rubber gloves
Eye protection:	Wear chemical goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White solid (powder, lumps or slabs)
Odour:	Slight or none
Melting Point:	Decomposes at 770 deg C
Boiling Point:	N/A
PH	N/A
Solubility:	Very soluble in water
Flammability:	N/A
Oxidising properties:	N/A
Vapour Pressure:	N/A
Bulk density/specific gravity:	1.69 s.g

10. STABILITY AND REACTIVITY

Conditions to avoid:	Stable under normal conditions
Materials to avoid:	Due to slight hydrolysis, dilute sulphuric acid can be formed. Avoid contact with strong alkalis, chlorites, hypochlorites, sulphites, cyanides, sulphides. Avoid contact with most metal surfaces and alloys of these metals (e.g. galvanised metal, aluminium, copper, zinc)
Hazardous decomposition products:	Can liberate toxic and corrosive fumes of So ₂ and SO ₃ under extreme conditions when boiled to dryness or heated above 600 deg C

11. TOXICOLOGICAL INFORMATION

Ingestion:	Unlikely o be acutely harmful. Acute oral toxicity in rates (LD 50) exceeded 5000mg/kg
Eye contact:	Solid aluminium sulphate has been found to be a moderate irritant to the rabbit eye.
Skin contact:	Solid aluminium sulphate has been found to be a non irritant to the rabbit skin

12. ECOLOGICAL INFORMATION

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.

13. DISPOSAL CONSIDERATIONS

Methods of disposal; waste of residues; contaminated packaging:	Unused material should be considered as special waste. Dispose of in compliance with all federal, state and local laws and regulations
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14. TRANSPORT INFORMATION

Not regulated for transport

15. REGULATORY INFORMATION

Hazard symbol:	Xi Irritant	
Information on the label:	Aluminium sulphate, solution	
Risk Phrases:	R36/37/38	Irritating to eyes, respiratory system 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 soap and water.
	S37/39	Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

Date of Issue:	16 th September 2003
Date of printing:	29 September 2005
Version:	1
Data Source:	Univar/Bartletts SDS ref 054, dated July 1996

This material safety data sheet (SDS) has been prepared in compliance with the relevant EU directives and regulations. The information in this SDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. Certikin International Ltd believe this information to be reliable and up

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