

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: UK REACH Regulations (SI 2019/758 as amended)

Supercedes date 18-Apr-2017 Revision date 26-Sep-2024 Revision Number 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 11986

Safety data sheet number 11986

Product Name ALUMINIUM SULPHATE SOLID

EC Number 233-135-0

CAS No 10043-01-3

Synonyms GOLDIFLOC FILTER AID TABLETS, BRISWIM FLOC, ALUMINIUM SULPHATE 0-2 MM

17-18%, ALUMINIUM SULPHATE 2-8 MM 17/18%, FILTER AID TAB, FLOC GRANULES,

ALUMINIUM SULPHATE 15% SLAB, ALUM SULPHATE HG 17%, AQUAEASY

GOLDIFLOC TAB

Pure substance/mixture Substance

Contains ALUMINIUM SULPHATE

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

Recommended use Water treatment chemical

Cleaning agent Adhesives Resin

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious eye damage/eye irritation

Category 1 - (H318)

2.2. Label elements

Contains ALUMINIUM SULPHATE



Signal word Danger

Hazard statements

H318 - Causes serious eye damage

Precautionary statements

P280 - Wear eye protection/ face 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 CENTER or doctor

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	EC No (EU	UK REACH registration	Classification according	Specific	M-Factor	M-Factor
		Index No)	number	to GB CLP (SI	concentration		(long-term)
				2020/1567 as	limit (SCL)		
				amended)			
ALUMINIUM	> 80%	233-135-0	-	Eye Dam. 1 (H318)	-	-	-
SULPHATE				·			
10043-01-3							

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Eyes Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctorsTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon oxides. Oxides of sulphur.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container tightly

closed in a dry and well-ventilated place.

Packaging materials Suitable container/equipment material:. stainless steel. Polyethylene (PE). Polypropylene.

Unsuitable container/equipment material. Aluminium. Iron. Carbon Steel. copper.

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure

limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
ALUMINIUM SULPHATE		3.8 mg/kg/day [4] [6]	13.4 mg/m³ [4] [6]
10043-01-3			

[4] Systemic health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
ALUMINIUM SULPHATE 10043-01-3	1.9 mg/kg/day [4] [6]	1.9 mg/kg/day [4] [6]	3.3 mg/m³ [4] [6]

[4] Systemic health effects.

[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
ALUMINIUM SULPHATE 10043-01-3	0.3 µg/l		0.03 μg/l		

Chemical	name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
ALUMINIUM S 10043-	_					20 mg/l

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Wear safety glasses with side shields (or goggles). Use eye

protection according to EN 166.

Hand protection Wear suitable gloves. Ensure that the breakthrough time of the glove material is not

exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Neoprene gloves. Rubber (natural, latex). Nitrile rubber. Butyl rubber. Polyethylene (PE). Polyvinyl chloride (PVC). Polyvinyl alcohol (PVA). Viton™. Gloves must conform to standard

EN 374.

Skin and body protection Wear suitable protective clothing.

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Particulate filter, type P2.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid **Appearance** solid

Colour Colourless To white

Odour Slight.

Odour threshold No information available

Values_ Remarks • Method Property

300 °C Melting point / freezing point

Initial boiling point and boiling range No information available. **Flammability** No information available. Flammability Limit in Air No information available.

Upper flammability or explosive

limits

Lower flammability or explosive

limits

Flash point No information available. **Autoignition temperature** No information available.

> 400.00 °C **Decomposition temperature**

No information available. 3.0 solution (10.0 %).

pH (as aqueous solution)

Kinematic viscosity No information available. Dynamic viscosity No information available.

Water solubility Soluble in water

No information available. Solubility(ies) Partition coefficient No information available.

< 0.01 @ 20.0 °C. Vapour pressure 20.0 °C. Relative density 1.7

1690 kg/m³ **Bulk density**

No information available No information available **Liquid Density** Relative vapour density No information available. No information available. Particle characteristics

No information available Particle Size **Particle Size Distribution** No information available **Explosive properties** Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stable under normal conditions. Stability

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Oxides of sulphur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause irritation.

Eye contact Causes serious eye damage.

Skin contact May cause slight irritation.

Ingestion Gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Acute toxicity

Numerical measures of toxicity

Component Information

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ī	ALUMINIUM SULPHATE	2000 - 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5 mg/l (Rat)
П				

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

ALUMINIUM SULPHATE (10043-01-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 404	Rabbit	Dermal			non-irritant

Serious eye damage/eye irritation Causes serious eye damage.

ALUMINIUM SULPHATE (10043-01-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
1110111010	0,00,00				

OECD 405	Rabbit	eye		Causes serious eye
				damage

Respiratory or skin sensitisation No information available.

ALUMINIUM SULPHATE (10043-01-3)

Method	Species	Exposure route	Results
OECD 406	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity No information available.

Component Information

ALUMINIUM SULPHATE (10043-01-3)

Method	Species	Results
OECD 471	in vitro	Negative
OECD 476	in vitro	Negative
OECD 487	in vitro	Negative

Carcinogenicity No information available.

Component Information

ALUMINIUM SULPHATE (10043-01-3)

Method		Species	Results	
		in vivo	Not Carcinogenic	

Reproductive toxicity No information available.

ALUMINIUM SULPHATE (10043-01-3)

Method	Species	Results	
OECD 426	Rat	Negative	

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

ALUMINIUM SULPHATE (10043-01-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 202:	Daphnia magna	EC50	> 200 mg/L	48 hours	

Page 8/12

Daphnia sp., Acute Immobilisation Test					
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	ErC50	14 mg/L	72 hours	
EPA/600/4-89/001	Ceriodaphnia dubia	NOEC	3.8 mg/L	8 days	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	activated sludge	EC50	> 1000 mg/L	180 minutes	

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
ALUMINIUM SULPHATE	-	LC50: > 87.5 mg/L (96h,	-	-
		Danio rerio)		

12.2. Persistence and degradability

Persistence and degradability Hydrolysis in water.

ALUMINIUM SULPHATE (10043-01-3)

Method	Exposure time	Value	Results
			The methods for determining
			biodegradability are not
			applicable to inorganic
			substances.

12.3. Bioaccumulative potential

Bioaccumulation Not applicable to inorganic substances.

12.4. Mobility in soil

Mobility in soil Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
ALUMINIUM SULPHATE	Not applicable The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Page 9/12

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1UN number or ID numberNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special precautions for user

Special Provisions No.

14.7 Maritime transport in bulk No information available according to IMO instruments

חופ

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **EINECS/ELINCS ENCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status **KECI** Contact supplier for inventory compliance status **PICCS** AIIC Contact supplier for inventory compliance status Contact supplier for inventory compliance status **NZIoC**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H318 - Causes serious eye damage

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Sensitisers

Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used

Page 11/12

Acute oral toxicity Calculation method Acute dermal toxicity Calculation method Acute inhalation toxicity - gas Calculation method Acute inhalation toxicity - vapour Calculation method Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Respiratory sensitisation Calculation method Skin sensitisation Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method Reproductive toxicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method Acute aquatic toxicity Calculation method Chronic aquatic toxicity Calculation method Aspiration hazard Calculation method Ozone Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared By Jitendra Panchal

Supercedes date 18-Apr-2017

Revision date 26-Sep-2024

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended) Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet