

SAFETY DATA SHEET ALUMINIUM SULPHATE SOLID

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

1.1. Product identifier

Product name ALUMINIUM SULPHATE SOLID

Product number 11986

Synonyms; trade names 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

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

Identified uses Water Treatment household cleaning Adhesive. 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 BD3 7AY

+44 1274 267300 +44 1274 267306

SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

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

Sds No. 11986

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H318 Causes serious eye damage.

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Precautionary statements P280 Wear protective gloves/ protective clothing/ 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.

Contains ALUMINIUM SULPHATE

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ALUMINIUM SULPHATE > 15

CAS number: 10043-01-3 EC number: 233-135-0 REACH registration number: 01-

2119531538-36-XXXX

Classification Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce

vomiting. Get medical attention.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue

to rinse.

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

Eye contact Risk of serious damage to eyes. May cause permanent damage if eye is not immediately

irrigated.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Sulphurous gases (SOx).

5.3. Advice for firefighters

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Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of

dust. Avoid contact with eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the

Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into

suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste

disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid handling which leads to dust formation. Avoid contact with

skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away

from the following materials: Acids. Oxidising materials. Metals The substance is hygroscopic

and will absorb water by contact with the moisture in the air.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

DNEL Industry - Inhalation; Long term systemic effects: 20.2 mg/m³

Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day

PNEC - STP; 20 mg/l

ALUMINIUM SULPHATE (CAS: 10043-01-3)

DNEL Consumer - Oral; : 3700 mg/kg/day

Industry - Oral; : 5700 mg/kg/day

Workers - Dermal; Long term systemic effects: 4.6 mg/kg/day Workers - Inhalation; Long term systemic effects: 20.2 mg/m³

PNEC Fresh water; 0.3 μg/l

marine water; 0.03 µg/l

STP; 20 mg/l

8.2. Exposure controls

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Protective equipment







Eye/face protection

The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection The most suitable glove should be chosen in consultation with the glove

> supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). To protect hands from chemicals, gloves should comply

with European Standard EN374.

Other skin and body

protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator

fitted with the following cartridge: Particulate filter, type P2. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Solid Colour White. Odour Slight.

Odour threshold No information available.

pН pH (diluted solution): ~ 3 @ 1 %

Melting point >300°C

Initial boiling point and range No information available. Flash point No information available.

Evaporation rate Not applicable.

Evaporation factor No information available. Flammability (solid, gas) No information available. Upper/lower flammability or

explosive limits

No information available.

No information available. Other flammability

Vapour pressure Not applicable. Vapour density Not applicable.

Relative density No information available.

Bulk density 1690 kg/m³

Solubility(ies) Soluble in water.

Partition coefficient No information available. Auto-ignition temperature No information available.

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Decomposition Temperature Not available.

Viscosity Not applicable.

Explosive properties Not considered to be explosive.

Explosive under the influence

of a flame

No information available.

Oxidising properties Does not meet the criteria for classification as oxidising.

No information available.

9.2. Other information

Molecular weight

Other informationNo information required.Refractive indexNo information available.Particle sizeNo information available.

VolatilityNo information available.Saturation concentrationNo information available.Critical temperatureNo information available.

Volatile organic compound No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Not available.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Water, moisture.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Metals Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours. Sulphurous gases (SOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,000.0

mg/kg)

products

Species Rat

Acute toxicity - dermal

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Acute toxicity dermal (LD₅o

mg/kg)

5,000.0

Species Rabbit

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroThis substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity -

development

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not applicable.

Inhalation Dust may irritate the respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

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Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 5 mg/l, 4 hour, Rat

Skin corrosion/irritation

Skin corrosion/irritation No information available.

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Serious eye damage/irritation

Serious eye

Causes serious eye damage.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitroNo information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

fertility

No information available.

Reproductive toxicity -

development

No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye damage. May cause permanent damage if eye is not

immediately irrigated.

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.

ALUMINIUM SULPHATE

Ecotoxicity The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills can have

a harmful or damaging effect on the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

ALUMINIUM SULPHATE SOLID

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 142 mg/l,

Acute toxicity - aquatic

EC₅₀, 48 hours: 38 mg/l,

invertebrates

Ecological information on ingredients.

ALUMINIUM SULPHATE

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

Ecological information on ingredients.

ALUMINIUM SULPHATE

Persistence and degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

ALUMINIUM SULPHATE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

ALUMINIUM SULPHATE

Mobility Not determined.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Ecological information on ingredients.

ALUMINIUM SULPHATE

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria. assessment

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

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Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Do not puncture or incinerate, even when

empty.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

ALUMINIUM SULPHATE SOLID

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

vPvB: Very Persistent and Very Bioaccumulative.

IARC: International Agency for Research on Cancer.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

cATpE: Converted Acute Toxicity Point Estimate.

BCF: Bioconcentration Factor.

BOD: Biochemical Oxygen Demand.

EC₅₀: 50% of maximal Effective Concentration.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration.

DMEL: Derived Minimal Effect Level.

EL50: Exposure Limit 50

hPa: Hectopascal

LL50: Lethal Loading fifty

OECD: Organisation for Economic Co-operation and Development

POW: Octanol-water partition coefficient SCBA: self-contained breathing apparatus

STP: Sewage Treatment Plant VOC: Volatile Organic Compounds

Classification abbreviations

Acute Tox. = Acute toxicity

and acronyms

Aquatic Acute = Hazardous to the aquatic environment (acute)

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and

sources for data

Supplier's information.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 02/05/2022

Version number 1.004

Supersedes date 18/04/2017

SDS number 11986

ALUMINIUM SULPHATE SOLID

SDS status Approved.

Hazard statements in full H318 Causes serious eye damage.

Signature Jitendra Panchal

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