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# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.11.2024

Version number 2.00 (replaces version 1.00)

Revision: 27.11.2024

# 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Aluminium Sulfate
- · Article number: 2072
- CAS Number: 7784-31-8
- · EC number:
- 616-524-3
- **Registration number** The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from:
   E-mail: info@caelo.de
   Tel.: +49210349940 (during regular opening hours)
- Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

# 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms



· Signal word Danger

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- · 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/doctor.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

## 3 Composition/information on ingredients

- · Substances
- · CAS No. Description
- CAS: 7784-31-8 Aluminium Sulfate
- · Identification number(s)
- · EC number: 616-524-3

## 4 First aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact:

Rinse opened eye for several minutes under running water.

- Seek medical advice, even if no immediate symptoms are observed.
- · After swallowing:

Rinse out mouth and then drink plenty of water.

- Do not induce vomiting; call for medical help immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture not combustible

In case of fire, the following can be released: Sulfur oxide (SxOy)

- Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.



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### · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
   Avoid contact with the substance.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Take up dry. Clean up with water.
- Dispose contaminated material as waste according to section 13.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

# 7 Handling and storage

• Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 8 B Non-combustible corrosive substances
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Respiratory protection: Dust protection mask.
- · Hand protection Protective gloves

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### Trade name: Aluminium Sulfate

· Matorial of glovos	(Contd. of page		
· <b>Material of gloves</b> Rubber gloves			
Natural rubber, NR			
The selection of the suitable gloves does not only d	epend on the material, but also on further marks of		
quality and varies from manufacturer to manufacture			
Penetration time of glove material			
	y the manufacturer of the protective gloves and has to		
be observed.			
<ul> <li>Eye/face protection Tightly sealed goggles</li> </ul>			
9 Physical and chemical properties			
· Information on basic physical and chemical pro	perties		
General Information			
· Physical state	Solid		
· Colour:	White		
· Odour:	Odourless		
· Odour threshold:	Not determined.		
<ul> <li>Melting point/freezing point:</li> </ul>	87 °C		
· Boiling point or initial boiling point and boiling			
range	Undetermined.		
<sup>.</sup> Flammability	Product is not flammable.		
<ul> <li>Lower and upper explosion limit</li> </ul>			
· Lower:	Not determined.		
· Upper:	Not determined.		
<sup>·</sup> Flash point:	Not applicable.		
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.		
· pH (20 g/l) at 20 °C	2.5–4		
· Viscosity:			
· Kinematic viscosity	Not applicable.		
· Dynamic:	Not applicable.		
Solubility			
water at 20 °C:	364 g/l		
• Partition coefficient n-octanol/water (log value)	Not determined.		
· Vapour pressure:	Not applicable.		
• Density and/or relative density	1.7 m/om3		
· Density at 20 °C:	1.7 g/cm³ Not determined.		
· Relative density			
· Vapour density · Particle characteristics	Not applicable. Not determined		
	Not determined		
• Other information			
· Appearance:			
· Form:	Solid		
<ul> <li>Important information on protection of health and environment, and on safety.</li> </ul>			
· Ignition temperature:	Not determined.		
· Explosive properties:	Product does not present an explosion hazard.		
Explosive higherines.	(Contd. on page		



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<ul> <li>Change in condition</li> <li>Evaporation rate</li> </ul>	Not applicable.	
•	Not applicable.	
<ul> <li>Information with regard to physical hazard classes</li> </ul>		
Explosives	Void	
	Void	
· Flammable gases	Void	
	Void	
· Aerosols	Void	
	Void	
· Oxidising gases	Void	
	Void	
· Gases under pressure	Void	
	Void	
· Flammable liquids	Void	
	Void	
Flammable solids	Void	
	Void	
· Self-reactive substances and mixtures	Void	
Cen-reactive Substances and mixtures	Void	
· Pyrophoric liquids	Void	
ryrophone liquids	Void	
Duranharia adida	Void	
· Pyrophoric solids	Void	
Oalf heating as heterage and mistures		
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void	
	Void	
Substances and mixtures, which emit flam		
gases in contact with water	Void	
	Void	
· Oxidising liquids	Void	
	Void	
· Oxidising solids	Void	
	Void	
· Organic peroxides	Void	
•	Void	
· Corrosive to metals	Void	
	Void	
· Desensitised explosives	Void	
	Void	

# 10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.



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· Incompatible materials: No further relevant information available.

• Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

Oral LD50 >9,000 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity:
- LC50 36.1 mg/L /96h (Fish)
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water



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(Contd. of page 6) Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

### 13 Disposal considerations

· Waste treatment methods

### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

### <sup>\*</sup>14 Transport information

r4 mansport mormation	
<ul> <li>UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	Not subject to transport regulations. not regulated
· UN proper shipping name	
ADR	not regulated
· IMDG, IATA	not regulated
<ul> <li>Transport hazard class(es)</li> </ul>	
· ADR, ADN, IMDG, IATA	
Class	not regulated
· Packing group	
· ADR, IMDG, IATA	not regulated
<ul> <li>Environmental hazards:</li> </ul>	Not applicable.
<ul> <li>Special precautions for user</li> </ul>	Not applicable.
Maritime transport in bulk according to IMO	
instruments	Not applicable.
· UN "Model Regulation":	not regulated

## **15 Regulatory information**

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Named dangerous substances ANNEX I Substance is not listed.
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

• Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 8 B Non-combustible corrosive substances

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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IF —

#### Trade name: Aluminium Sulfate

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

· Reasons for alterations This version replaces all old versions.

· Date of previous version: 27.11.2024

· Version number of previous version: 1.00

 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Dam. 1: Serious eye damage/eye irritation – Category 1 \* Data compared to the previous version altered.