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

- Informations to product No. 2072
- Product name:

Aluminiumsulfat
Aluminii sulfas
Aluminium sulfate

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

2 Hazards identification

- **GHS-Labeling Elements:**



- **Signal word:** Danger

- **H-Phrases:**

H318 Causes serious eye damage

- **P-Phrases:**

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

P313 Get medical advice/attention

Eye Dam. 1


3 Composition / information on ingredients

- **Chemical characterization:**

CAS-No. Substance name

7784-31-8 Aluminium sulphate 18-hydrate

- **EINECS-No.:** 233-135-0

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4 First aid measures

- **after inhalation:** Fresh air, if feeling unwell continuously seek medical advice.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible. In case of fire dangerous vapours/gases can be generated: Sulphur oxides.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage


- **Handling:** No special requirements.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses.
- **Respiratory protection:** Dust protection mask.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** ca. 87 °C
- **Density:** (20 °C) 1,7

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- **Solubility in / Miscibility with**
- **Water:** (20 °C) 364 g/l
- **pH-range:** (20 °C, 20g/l) 2,5 – 4,0

10 Stability and reactivity

- **Hazardous decomposition products:**
On strong heating sulphur oxides can be released.
- **Additional information:** After heating crystal water is released.

11 Toxicological information

- **Acute toxicity:**
LD50 (rat, oral): > 9000 mg/kg (RTECS)
- **Primary irritant effect:**
On skin: Not irritant
On eyes: Irritant with risk of serious eye damage.
- **Sensitization:** Not sensitizing

12 Ecological information

- **Aquatic toxicity:**
Fishes: Pimephales promelas LC50: 36,1 mg/l/96h (ECOTOX)
Carassius auratus LC50: ca. 100 mg/l/96h
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
Not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS05
- **Signal word:** Danger
- **H-Phrases:**

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· **P-Phrases:**

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· **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product does not need to be labelled according to GHS-regulations.

· **National regulations (Germany):**

· **Water hazard class:** see chapter 12

· **Storage class TRGS 510:** 8B

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.