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

Printing date 27.11.2024 Version number 3.00 (replaces version 2.00) Revision: 27.11.2024

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

· Product identifier

· Trade name: aluminum chloride hexahydrate

· Article number: 2069

• CAS Number: 7784-13-6 • EC number:

616-520-1

· **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

Skin Corr. 1A H314 Causes severe skin burns and 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

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

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.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 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: 7784-13-6 aluminum chloride hexahydrate

- · Identification number(s)
- **EC number:** 616-520-1

4 First aid measures

- · Description of first aid measures
- · After inhalation: Bring the person out of the contaminated area to fresh air.
- · After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor 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

Formation of toxic gases is possible during heating or in case of fire.

- · 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 contact with the substance.

Do not breathe Dust.

- · 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 No special measures required.
- 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 and skin.

- · Respiratory protection: Dust protection mask.
- Hand protection Protective gloves

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· Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye/face protection Tightly sealed goggles
- Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state Solid · Colour: Colourless · Odour: Odourless · Odour threshold: Not determined.

· Melting point/freezing point: 100 °C

Boiling point or initial boiling point and boiling

range Undetermined.

· Flammability Product is not flammable.

Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. Decomposition temperature: Not determined. pH (50 g/l) at 20 °C 2.5 - 3.5

· Viscosity:

· Kinematic viscosity Not applicable. · Dynamic: Not applicable.

· Solubility

water at 20 °C: 477 g/l

· Partition coefficient n-octanol/water (log value) Not determined. Not applicable.

· Vapour pressure:

Density and/or relative density

· Density at 20 °C: 2.4 g/cm³ · Relative density Not determined. 700 kg/m³ · Bulk density: · Vapour density Not applicable. · Particle characteristics Not determined

Other information

· Appearance:

· Form: Crystalline powder

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· Important information on protection of health and environment, and on safety.

· **Ignition temperature:** Not determined.

• **Explosive properties:** Product does not present an explosion hazard.

Void

· Change in condition

• **Evaporation rate** Not applicable.

· Information with regard to physical hazard classes

· Explosives Void Void
· Flammable gases Void Void
· Aerosols Void

· Oxidising gases Void Void

· Gases under pressure Void Void

· Flammable liquids Void Void · Flammable solids Void

Void
Self-reactive substances and mixtures
Void
Void
Void

· **Pyrophoric liquids** Void Void

Pyrophoric solids Void Void

· Self-heating substances and mixtures Void Void

· Substances and mixtures, which emit flammable 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.

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- · 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.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Hydrogen chloride (HCI)

*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 1,990 mg/kg (mouse)

- Primary irritant effect:
- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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 27.1 mg/L /96h (Fish)

EC50 27.3 mg/L /48h (Daphnia magna)

- · 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.

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

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

14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN3260

· UN proper shipping name

· ADR 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(aluminum chloride hexahydrate)

• IMDG CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(aluminum chloride hexahydrate)

· IATA Corrosive solid, acidic, inorganic, n.o.s. (aluminum

chloride hexahydrate)

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 8 Corrosive substances.

· Label

· Packing group

· ADR, IMDG, IATA

· Environmental hazards: Not applicable.

• Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80
 EMS Number: F-A,S-B
 Segregation groups SGG1 - Acids

· Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

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· IMDG

Limited quantities (LQ) 1 kg

• UN "Model Regulation":

UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC,
N.O.S. (ALUMINUM CHLORIDE HEXAHYDRATE), 8, II

*15 Regulatory information

- · 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.

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: 2.00
- 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

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

* Data compared to the previous version altered.

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