

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Talc pure extra fine powder

Revision date: 02.06.2023

Product code: 19903

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

1.1. Product identifier

Talc pure extra fine powder

CAS No: 14807-96-6

EC No: 238-877-9

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH

Street: Stempelstraße 6

Place: D-47167 Duisburg

Telephone: 0203/5194-0

Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit

Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Further Information

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: $3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$

Molecular weight: 379,27 g/mol

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|----------|----------|----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | | | 100 % |
| | 238-877-9 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|--|---|----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 14807-96-6 | 238-877-9 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | 100 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water.

Call a doctor if you feel unwell.

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

Irritant

Cough

Dyspnoea

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids

5.3. Advice for firefighters

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In case of fire: Wear self-contained breathing apparatus.

Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Provide adequate ventilation.
- Use personal protection equipment.
- Avoid contact with skin, eyes and clothes.
- Remove persons to safety.
- Emergency procedures
- Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

- Keep container tightly closed.
- Do not breathe dust.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

- Wash contaminated clothing prior to re-use.
- Avoid contact with skin, eyes and clothes.

Further information on handling

- Wash contaminated clothing before reuse.
- Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No data available

Further information on storage conditions

Store in a dry place.

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storage temperature: +5°C - +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|------------|-----------------------|-----|-------------------|---------------------|-----------|--------|
| 14807-96-6 | Talc, respirable dust | - | 0.8 | | TWA (8 h) | |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|-------------------------|
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 2,16 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 2,16 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 3,6 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 3,6 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 43,2 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | local | 4,54 mg/cm ² |
| Consumer DNEL, long-term | | inhalation | systemic | 1,08 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 1,08 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 1,8 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 1,8 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 21,6 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | local | 2,27 mg/cm ² |
| Consumer DNEL, long-term | | oral | systemic | 160 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 160 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|------------------------------------|---|-------------|
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | |
| Freshwater | | 597,97 mg/l |
| Freshwater (intermittent releases) | | 597,97 mg/l |
| Marine water | | 141,26 mg/l |
| Freshwater sediment | | 31,33 mg/kg |
| Marine sediment | | 3,13 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

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Eye/face protection

goggles

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>, <) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: P1

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------|
| Physical state: | solid |
| Colour: | white |
| Odour: | odourless |
| Melting point/freezing point: | >1300 °C |
| Boiling point or initial boiling point and boiling range: | No data available |
| Flammability: | No data available |
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Flash point: | X |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| pH-Value (at 20 °C): | 7,0 - 9,0 (50 g/l) |
| Viscosity / kinematic: | No data available |
| Water solubility: | practically insoluble |
| Solubility in other solvents | |
| No data available | |
| Partition coefficient n-octanol/water: | log Pow -9,4 |
| Vapour pressure: | No data available |
| Vapour pressure: | No data available |

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Density (at 20 °C): ~2,75 g/cm³
Bulk density: ~450 kg/m³
Relative vapour density: No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
No data available
Sustaining combustion: No data available
Self-ignition temperature
Solid: No data available
Gas: No data available
Oxidizing properties
No data available

Other safety characteristics

Evaporation rate: No data available
Solvent separation test: No data available
Solvent content: No data available
Solid content: No data available
Sublimation point: No data available
Softening point: No data available
Pour point: No data available
No data available:
Viscosity / dynamic: No data available
Flow time: No data available

Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent, strong

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

No data available

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Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|------------|---|-------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1974) | OECD Guideline 423 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2003) | OECD Guideline 402 |

Irritation and corrosivity

Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Other information

No data available

Further information

Do not breathe dust.

SECTION 12: Ecological information

12.1. Toxicity

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| CAS No | Chemical name | | | | | |
|------------|---|-----------------|-----------|---------|-----------------|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | | | | | |
| | Acute fish toxicity | LC50 16 mg/l | 89581,0 | 96 h | Fishes species | REACH Registration Dossier other: QSAR |
| | Acute algae toxicity | ErC50 mg/l | 7202,7 | 96 h | Green Algae | REACH Registration Dossier other: QSAR model |
| | Acute crustacea toxicity | EC50 59 mg/l | 36812,3 | 48 h | Daphnid species | REACH Registration Dossier other: QSAR model |
| | Fish toxicity | NOEC 8 mg/l | 5979,71 | 30 d | Fish species | REACH Registration Dossier other: QSAR |
| | Crustacea toxicity | NOEC 8 mg/l | 1459,79 | 30 d | Daphnid species | REACH Registration Dossier other: QSAR |

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | -9,4 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---|-------|------------|----------------------|
| 14807-96-6 | Talc (Mg ₃ H ₂ (SiO ₃) ₄) | 3,162 | QSAR model | REACH Registration D |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

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Land transport (ADR/RID)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): - - non-hazardous to water

Additional information

No data available

SECTION 16: Other information

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.