Disodium oxo[(oxoalumanyl)oxy]alumane silanedione hydrate oxidandiide, known as Zeolite, traded as powder or granulate

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

1.1. Product identifier

Product name: Disodium oxo[(oxoalumanyl)oxy]alumane silanedione hydrate oxidandiide, known as Zeolite, traded as powder or granulate

CAS-No.: 1318-02-1
EC-No.: 215-283-8, 930-915-9
REACH No.: 01-2119429034-49-0024 (USA), 01-2119429034-49-0037 (CHN)

Synonyms: Z3-XX, Z4-XX, Z5-XX, Z10-XX, M-13, Purmol, ZEOX®, ZA-XX, HYPXX, ESIXX, XX-GDG, 4A-XX

Product code: None.

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

Use of the Substance/Mixture: Adsorbent, Desiccant

1.3. Details of the supplier of the safety data sheet

Joweid 5, 8630 Rüti, Schweiz
Tel.: +41 44 922 93 93
E-Mail: info@zeochem.ch
SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Specific target organ toxicity (single exposure, inhalation), Cat. 3, H335

The product is classified and labelled according to Regulation (EC) No. 1272/2008.

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word

Warning

Hazard Statements

H335: May cause respiratory irritation.

Precautionary statements

P501: Dispose of contents/container to an approved waste disposal plant.

**Supplemental information**

All potential hazards are caused by the product's property to adsorb water. Dried product can dehydrate humid body parts (eyes, mucus membranes, lungs) or irritate them by the heat generated by the adsorption, the latter also applies to wetted or sweaty skin. The product saturated with water has no dangerous properties other than mechanical irritation by powder or small particles.

**Product identifier**

Zeolite, CAS-No. 1318-02-1, EC-No. 215-283-8; 930-915-9, REACH No. 01-2119429034-49-0024 or 01-2119429034-49-0037

Clay binder, exempted from REACH registration based on § 8 of the Annex 5 of the Regulation (EC) No 1907/2006

2.3. Other hazards

No dangerous ingredients according to Regulation (EC) No. 1272/2008. The activated product generates much heat in contact with water.

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**SECTION 3: Composition/information on ingredients**

3.2. Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>CLP Classification</th>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zeolite</td>
<td>75% - 100%</td>
<td>Not classified CAS-No.: 1318-02-1 EC-No.: 215-283-8; 930-915-9 REACH No.: 01-2119429034-49-0024 or 01-2119429034-49-0037</td>
</tr>
<tr>
<td>Clay binder</td>
<td>0% - 25%</td>
<td>Not classified Exempted from REACH registration based on § 8 of the Annex 5 of the Regulation (EC) No 1907/2006</td>
</tr>
</tbody>
</table>

For the full text of the phrases mentioned in this Section, see Section 16.

**Hazardous impurities**

None known.

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**SECTION 4: First aid measures**

4.1. Description of first aid measures

**Inhalation**

No special measures required.

**Skin contact**

Wash with water and soap as a precaution.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

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

None known.
4.3. Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

No special measures required.

Extinguishing media which must not be used for safety reasons

None.

5.2. Special hazards arising from the substance or mixture

No data is available on the product itself.

5.3. Advice for firefighters

Special protective equipment for firefighters

Standard procedure for chemical fires.

Specific methods

No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

No special measures required.

Advice for emergency responders

Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. After cleaning, flush away traces with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Applies to powders only: Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container.

7.3. Specific end use(s)

No information available.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)  Total dust
Permissible exposure limit: 10 mg/m³.
Alveolar dust fraction:
Permissible exposure limit: 3 mg/m³.

8.2. Exposure controls

Appropriate engineering controls  General industrial hygiene practice.

Personal protection equipment

Respiratory protection  No special protective equipment required.

Hand protection  DRY moleskin gloves.

Eye protection  Avoid contact with eyes.

Skin and body protection  No special measures required.

Thermal hazards  No special measures required.

Environmental exposure controls  No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance  Powder or granulate
Colour  Powder: white to cream-colored / Granulated: cream-colored, beige or beige-gray
Odour  Odorless
Odour Threshold  Not determined.
ph:  9-11.5 (5% in H2O)
Melting point/range:  > 1600°C
Boiling point/range:  n.a.
Flash point:  does not flash
Evaporation Rate:  n.a.
Flammability:  n.a.
Explosion limits:  n.a.
Vapour pressure:  n.a.
Vapor density:  n.a.
Relative density:  550-850 g/L
Water solubility:  practically insoluble
Partition coefficient (n-octanol/water):  n.a.
Autoignition temperature:  n.a.
Decomposition temperature:  n.a.
Viscosity:  n.a.
Explosive properties:  not hazardous
Oxidising properties:  None
9.2. Other information

General Product Characteristics  No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity  No information available.
10.2. Chemical stability  No decomposition if used as directed.
10.3. Possibility of hazardous reactions  No information available.
10.4. Conditions to avoid  Not required.
10.5. Incompatible materials  The activated product generates much heat in contact with water.
10.6. Hazardous decomposition products  None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity  None.
Zeolite (CAS 1318-02-1)
LD50/oral/rat > 5000 mg/kg.
LD50/dermal/rabbit > 2000 mg/kg.
LC50/inhalation/rat > 15 mg/l.
No observed adverse effect level (NOAEL): 250 - 300 mg/kg (rat, oral).

Skin corrosion/irritation  Slight skin irritation.

Serious eye damage/eye irritation  Slight eye irritation.

Respiratory / Skin Sensitisation  None.

Carcinogenicity  Animal testing did not show any carcinogenic effects.

Germ cell mutagenicity  Animal testing did not show any mutagenic effects.

Reproductive toxicity  Animal testing did not show any hazardous effects.

Specific target organ toxicity (single exposure)  No data available.

Specific target organ toxicity (repeated exposure)  No data available.

Aspiration hazard  Irritating to mucous membranes. May cause respiratory tract irritation.

Human experience  No data available.
SECTION 12: Ecological information

12.1. Toxicity  
Zeolite (CAS 1318-02-1)  
EC50/48h/daphnia > 100 mg/l.  
LC50/96h/fish > 680 mg/l.  
EC50/96h/algae = 300 mg/l.

12.2. Persistence and degradability  
No data available.

12.3. Bioaccumulative potential  
Does not bioaccumulate. Accumulation in aquatic organisms is unlikely. Accumulation in terrestrial organisms is unlikely.

12.4. Mobility in soil  
No data available.

12.5. Results of PBT and vPvB assessment  
No information available.

12.6. Other adverse effects  
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods  
Waste from residues / unused products  
Dispose of in accordance with local regulations.

Contaminated packaging  
Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID  
Not regulated.

IMDG  
Not regulated.

IATA  
Not regulated.

Further Information  
Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Regulatory Information  
In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

15.2. Chemical safety assessment  
Not required.
## SECTION 16: Other information

| Key or legend to abbreviations and acronyms | CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)  
|                                           | PEL: Permissible Exposure Limit |
| Full text of phrases referred to under sections 2 and 3 | H335: May cause respiratory irritation. |
| Further information                        | n.a.                            |
| Disclaimer                                  | The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. |