



MOLECULAR SIEVE

Version 3.1

Revision Date 18.03.2011

Print Date 18.03.2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : MOLECULAR SIEVE

Use of the Substance/Mixture : Desiccant

Company : OKER-CHEMIE GMBH
Im Schleeke 77
38642 Goslar
Germany

Telephone : +49 (0)53 21 - 7 51-34 15

E-mail address : infoSDS@hcstarck.com

Responsible Department : Corporate HSEQ

Emergency telephone : +49(0)551/19240

2. HAZARDS IDENTIFICATION

GHS Classification

No classification

Classification (67/548/EEC, 1999/45/EC)

No classification

The product has an adsorbent effect and may cause dehydration in case of prolonged skin contact.
Intensive evolution of heat in contact with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	R- phrase(s)	GHS Classification	Concentration [%]
Zeolithe	1318-02-1 215-283-8				>= 99

4. FIRST AID MEASURES

Inhalation : Remove to fresh air.
If symptoms persist, call a physician.

Skin contact : Wash off with soap and water.
If skin irritation occurs, seek medical advice/attention.



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- Eye contact : Rinse with plenty of water.
If eye irritation persists, consult a specialist.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.
Obtain medical attention.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Extinguishing methods depends upon fire in vicinity poses.
The product itself does not burn.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : None known.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid formation and deposition of dust.
Use personal protective equipment.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Use mechanical handling equipment.
Avoid dust formation.
Fill into labelled, sealable containers.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Avoid dust formation.
Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product.
Ensure that the occupational exposure limit value/s (OEL) and/or other limit values are complied with.
- Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Storage

- Requirements for storage areas and containers : Comply with the directives governing water law
- Further information on storage conditions : Store in tightly closed containers in a dry place.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

ALUMINIUM OXIDES, RESPIRABLE DUST; CAS-No.: 1318-02-1

Basis : EH40 (UK)

Threshold limits

TWA : 4 mg/m³ Respirable dust

Zeolithes; CAS-No.: 1318-02-1

Basis : OEL (EU)

Note : No limit value established.

Personal protective equipment

Respiratory protection : Respiratory protective device with particle filter EN 143 - P2

Hand protection : Butyl-rubber, Natural rubber, Nitrile rubber
The data about break through time/strength of material is not valid for undissolved solids/dust.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Keep working clothes separately.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : spherical hygroscopic

Colour : beige

Odour : odourless

Safety data

Lower explosion limit : no data available

Flammability (solid, gas) : not highly flammable
Method: Directive 67/548/EEC Annex V, A.10.

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



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Autoignition temperature : Method: Directive 67/548/EEC Annex V, A.16.
not auto-flammable

Burning number : 1

Method: VDI 2263

Flammability (contact with water) : not highly flammable
Method: Directive 67/548/EEC Annex V, A.12.

Dust explosibility : no data available

pH : 7 - 11
at
20 °C

Melting point/range : 2.000 °C

Density : 2,1 g/cm³

Bulk density : 400 - 1.000 kg/m³

Water solubility : Note: insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

Materials to avoid : None known.

Hazardous decomposition products : No hazardous decomposition products are known.

Thermal decomposition : Note: not applicable

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
Zeolithe : LD50: > 5.110 mg/kg
Species: rat
Method: OECD Test Guideline 401

Acute inhalation toxicity
Zeolithe : LC50: > 18,3 mg/l
Exposure time: 1 h
Species: rat
Method: No information available.

Acute dermal toxicity
Zeolithe : LD50: > 2.000 mg/kg



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Species: rabbit

Skin irritation
Zeolithe : Result: No skin irritation

Eye irritation
Zeolithe : Result: Mild eye irritation

Repeated dose toxicity
Zeolithe : Species: rat
Application Route: Oral
Exposure time: 90-day ()
NOEL: 5.000 mg/kg

12. ECOLOGICAL INFORMATION

Toxicity to fish
Zeolithe : LC50: 1.800 mg/l
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates.
Zeolithe : EC50: 2.808 mg/l
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae
Zeolithe : EC50: 18 mg/l
Exposure time: 4 d
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201

Toxicity to bacteria
Zeolithe : EC50: 1.550 mg/l
Exposure time: 16 h
Species: Pseudomonas putida

Further information on ecology

13. DISPOSAL CONSIDERATIONS

Product : The Federal, regional and local rules and regulations governing



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disposal must be complied with.

: This product cannot be classified with disposal identification key acc. to the EU disposal directives as a classification results from the intended utilisation purpose of the consumer

14. TRANSPORT INFORMATION

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

15. REGULATORY INFORMATION

GHS-Labeling

contains :

Zeolithe

Precautionary statements

: **Prevention:**

P273

Avoid release to the environment.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives

Directive 67/548/EEC

Labelling required

Hazardous components which must be listed on the label:

contains :

Zeolithe

S-phrase(s)

S29

Do not empty into drains.

National legislation

**Major Accident Hazard
Legislation**

: 96/82/EC

Annex I

Number: Is not subject to the Seveso II Directive.



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16. OTHER INFORMATION

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 and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.