

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : MOLECULAR SIEVE 3A, 4A, 10A

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use. Professional use.  
Use of the substance/mixture : Production of preparations or articles by tableting, compression, extrusion, pelletisation, Adhesives, sealants, Adsorbents, Air care products, Biocidal products (e.g. Disinfectants, pest control), Coatings and paints, thinners, paint removers, Fillers, putties, plasters, modelling clay, Fertilizers, Fuels, Metal surface treatment products, including galvanic and electroplating products, Non-metal-surface treatment products, Ink and toners, Intermediate, Products such as ph-regulators, flocculants, pre-cipitants, neutralization agents, Leather tanning, dye, finishing, impregnation and care products, Lubricants, greases, release products, Paper and board dye, finishing and impregnation products: including bleaches and other processing aids, Plant protection products, Perfumes, fragrances, Polishes and wax blends, Polymer preparations and compounds, Semiconductors, Textile dyes, finishing and impregnating products; including bleaches and other processing aids, Washing and cleaning products (including solvent based products), Water softeners, Water treatment chemicals, Extraction agents, Agriculture, forestry, fishery, Manufacture of textiles, leather, fur, Manufacture of pulp, paper and paper products, Printing and reproduction of recorded media, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of rubber products, Manufacture of plastics products, including compounding and conversion, Manufacture of fabricated metal products, except machinery and equipment, Manufacture of computer, electronic and optical products, electrical equipment, Building and construction work

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Oker-Chemie GmbH  
Im Schleeke 77  
38642 Goslar - Germany  
Tel.: +49 (0)5321 75153415

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: [sds@dlac-gmbh.de](mailto:sds@dlac-gmbh.de)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum (GIZ-Nord) Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch Straße 40 37075 Göttingen	+49 551 19240 (German, English)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, the product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-phrases : EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zeolithe, cuboidal, crystalline, synthetic, non-fibrous	(CAS no) 1318-02-1 (EC no) 215-283-8 (Registration no) 01-2119429034-49	75 - 90	Not classified
Zeolithe, cuboidal, crystalline, synthetic, non fibrous, thermally produced	(EC no) 931-125-7 (Registration no) 01-2119561162-47	10 - 25	Not classified
Quarz (SiO <sub>2</sub> )	(CAS no) 14808-60-7 (EC no) 238-878-4	≤ 1	Not classified

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Drink plenty of water as a precaution.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Adapt extinguishing agents to the environment. Carbon dioxide. Dry extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product itself does not burn.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Provide adequate ventilation. Do not breathe dust.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate the danger area.

#### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing. Self-contained breathing apparatus

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers. Avoid dust formation. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid dust formation.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store tightly closed in a dry and cool place. Never return unused material to original container. Keep container closed when not in use.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Quarz (SiO <sub>2</sub> ) (14808-60-7)		
Ireland	Local name	Quartz, respirable dust
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
United Kingdom	Local name	Silica, respirable crystalline
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Zeolithe (1318-02-1)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	2.5 mg/m <sup>3</sup> bodyweight/day	
Long-term - local effects, inhalation	3 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	1.25 mg/kg bodyweight/day	
Long-term - local effects, inhalation	0.003 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	1.25 mg/m <sup>3</sup> bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	3.2 mg/l	
PNEC aqua (marine water)	0.32 mg/l	
PNEC (Soil)		
PNEC Soil	600 mg/kg	
PNEC (STP)		
PNEC Sewage treatment plant	95 mg/l	
Zeolithe (931-125-7)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	2.5 mg/kg Körpergewicht/Tag	
PNEC (Water)		
PNEC aqua (freshwater)	3.2 mg/l	
PNEC aqua (marine water)	0.32 mg/l	
PNEC (Soil)		
PNEC Soil	600 mg/kg	
PNEC (STP)		
PNEC Sewage treatment plant	95 mg/l	

#### 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize exposure to dust.

Hand protection : Not required. In case needed, wear suitable gloves (EN 374). Nitrile rubber,  $\geq 0.35$  mm. Butyl rubber, Natural rubber,  $\geq 0.5$  mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection : Not required. In case needed, wear safety glasses (EN 166).

Skin and body protection : Not required. In case needed, wear suitable protective clothing.

Respiratory protection : No respiratory protection needed under normal use conditions. If the occupational exposure limit is exceeded or dust production: dust mask with filter type P2 (EN 143).

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance : Spherical solid, beige

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

Odour	: Odourless
Odour threshold	: Not applicable
pH	: 7 - 11 (20 °C)
Melting point/freezing point	: > 400 °C (OECD 102)
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: Not flammable
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: No data available
Density	: No data available
Solubility(ies)	: Water: insoluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: Not applicable
Explosive properties	: Not explosive
Oxidising properties	: No oxidising properties

### 9.2. Other information

Flammability (contact with water) : Not highly flammable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

No conditions to avoid known.

### 10.5. Incompatible materials

No incompatible materials known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified Based on available data, the classification criteria are not met. <b>Zeolithe (1318-02-1 / 931-125-7):</b> LD50 oral rat: > 5110 mg/kg (OECD 401) LD50 dermal rabbit: > 2 000 mg/kg (OECD 402) LC0 inhalation rat: > 3.35 mg/L, 4 h
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met.

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: This product contains no hazardous components for the aquatic environment.
Acute aquatic toxicity	: Not classified

##### **Zeolithe (1318-02-1 / 931-125-7):**

- Toxicity fish NOEC (Pimephales promelas): > 680 mg/L, 96 h
- Toxicity fish NOEC (Pimephales promelas): > 86.7 mg/L, 30 d
- Toxicity daphnia EC50 (Daphnia magna): 2808 mg/L, 24 h, Read across (OECD 202)
- Toxicity daphnia NOEC (Penaeus duorarum): 780 mg/L, 24 h
- Toxicity daphnia NOEC (Daphnia magna): 32 mg/L, 21 d, (OECD 211)
- Toxicity algae EC50 (Desmodesmus subspicatus): 130 mg/L, 72 h, (OECD 201)
- Toxicity microorganism EC50 (Pseudomonas putida): 950 mg/L, 16 h, (DIN 38412-8)

Chronic aquatic toxicity	: Not classified
--------------------------	------------------

#### 12.2. Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

Not required for inorganic substances.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

This product does not meet the PBT- or vPvB criteria of REACH regulation, annex XIII.

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Do not empty into drains.
Waste code	: The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

#### 14.1. UN number

UN-No. (ADR)	: Not applicable
--------------	------------------

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no substance on REACH Annex XIV list

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to earlier Versions : General revision

### Zeolithe (1318-02-1)

Listed on: EINECS/REACH (Europa)

# Safety Data Sheet

according to Regulation (EU) No. 2015/830



## MOLECULAR SIEVE 3A, 4A, 10A

Date of issue: 29.04.2019

Revision date: 02.07.2019

Version: 5.0

Listed on: AICS (Australian Inventory of Chemical Substances)  
Listed on: NZIoC (New Zealand Inventory of Chemicals)  
Listed on: IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on: KECL (Korean Existing Chemicals List)  
Listed on: PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on: TCSI (Taiwan's chemical substance inventory)

### Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BAF	Bioaccumulation factor
BCF	Bioconcentration factor
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LL0	Lethal Load for 0 %
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety data sheet
vPvB	Very Persistent and Very Bioaccumulative

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*