

GUIDANCE ON SAFE USE

related to Synthetic non-fibrous and non-classified Zeolites grades

First-aid measures

- General information: Take note of the following instructions.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin. Wash with water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

Fire-fighting measures

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet.
- Protective equipment: Wear protective equipment.
- Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect
- contaminated fire fighting water separately. It must not enter the sewage system.

Accidental release measures

- Person-related safety precautions: Wear protective clothing.
- Measures for environmental protection: No special measures required.
- Measures for cleaning/collecting: Sweep the spill area; avoid raising dust.
- Additional information: No dangerous substances are released.

Handling and storage

Handling:

- Information for safe handling: Prevent formation of dust. Keep receptacles tightly sealed. Provide suction extractors if dust is formed.
- Any unavoidable deposit of dust must be regularly removed. Prevent static electric sparks.
- Information about fire - and explosion protection: Protect against electrostatic charges. Earth container to avoid electric sparks, especially in contact with flammable substances.

Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Store in dry conditions. This product is hygroscopic.
- Storage class: 13

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Land transport (ADR/RID/)

- not classified

Inland waterway transport (AND(R))

- not classified

Marine transport (IMDG)

- not classified

Air transport ICAO/IATA

- not classified

Exposure controls / personal protection

- Additional information about design of technical facilities: No further data
- Ingredients with limit values that require monitoring at the workplace:
1318-02-1 zeolite (crystalline aluminosilicate) WEL (Great Britain): Long-term value: *10 **4 mg/m³ (*inhalable **respirable)AGW (ALVEO) (Germany): Long-term value: 3 A mg/m³; Short-term value (peak value 15 min.): 6 A mg/m³ (Allg. Staubg.: TRGS 900 2.4, AGS)AGW (EINATEM) (Germany): Long-term value: 10 E mg/m³; Short-term value (peak value 15 min): 20 E mg/m³ (Allg. Staubg.: TRGS 900 2.4, AGS)

Personal protective equipment:

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: dust masks or respirators, if the WEL value is exceeded. Filter P2
- Protection of hands: protective gloves. Wear gloves for protection against mechanical hazards according to EN 388. Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.
- Material of gloves EN 388: Minimum requirements for efficiency level 1 for all groups. The selection of the suitable gloves does not only depend on the material, but also on furthermarks of quality and varies from manufacturer to manufacturer. Butyl rubber, BRNitrile rubber, NBR.
- Recommended thickness of the material: ≥ 0.11 mm.
- Penetration time of glove material EN 420: Minimum requirements for efficiency level 1 for all groups. For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6). For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BRNitrilerubber, NBR
- Eye protection: safety glasses.
- Body protection: Protective work clothing.

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Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided: no data
- Dangerous reactions: No dangerous reactions known.
- Dangerous decomposition products: No dangerous decomposition products known.

Disposal considerations

- Recommendation: Disposal must be made according to official regulations.
- Waste disposal key: The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.
- Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.