

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.02.2022

Version number 4 (replaces version 3)

Revision: 09.02.2022

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

- 1.1 Product identifier
  - Trade name: **KEMPERTEC KR Quartz sand**
  - 1.2 Relevant identified uses of the substance or mixture and uses advised against
  - Application of the substance / the mixture
  - 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
  - Further information obtainable from:
  - 1.4 Emergency telephone number:
- Identified use: intended for professional use only!  
 Filler/ Extender  
 KEMPER SYSTEM GmbH & Co. KG  
 Holländische Strasse 32-36  
 34246 Vellmar  
 Deutschland / Germany  
 Telefon: +49 (0)561 / 8295-0  
 Telefax: +49 (0)561 / 8295-5110  
 E-Mail: MSDS@KEMPER-SYSTEM.COM  
 research & development  
 Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen  
 Langenbeckstraße 1; Gebäude 601; 55131 Mainz  
 Tel. Nr.: +49 (0)6131 / 19 24 0  
 Universitätsmedizin der Johannes Gutenberg-Universität Mainz

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
  - 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008
  - Hazard pictograms
  - Signal word
  - Hazard statements
  - 2.3 Other hazards
  - Results of PBT and vPvB assessment
  - PBT:
  - vPvB:
- The product is not classified, according to the CLP regulation.  
 Void  
 Void  
 Void  
 Void  
 Not applicable.  
 Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
  - Description:
  - Dangerous components:
  - Additional information:
- Mixture: consisting of the following components.
- |                   |                            |   |         |
|-------------------|----------------------------|---|---------|
| CAS: 14808-60-7   | Quartz (SiO <sub>2</sub> ) | substance with a Community workplace exposure limit | 50-100% |
| EINECS: 238-878-4 |                            |   |         |
- For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - General information:
  - After inhalation:
  - After skin contact:
  - After eye contact:
  - After swallowing:
  - 4.2 Most important symptoms and effects, both acute and delayed
- Immediately remove any clothing soiled by the product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
 Do not leave affected persons unattended.  
 Personal protection for the First Aider.  
 Take affected persons out of danger area and lay down.  
 In case of unconsciousness place patient stably in side position for transportation.  
 Supply fresh air; consult doctor in case of complaints.  
 Immediately wash with water and soap and rinse thoroughly.  
 Seek medical treatment in case of complaints.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
 Protect unharmed eye.  
 If symptoms persist consult doctor.  
 No further relevant information available.

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2022

Version number 4 (replaces version 3)

Revision: 09.02.2022

Trade name: **KEMPERTEC KR Quartz sand**

(Contd. of page 1)

- 4.3 Indication of any immediate medical attention and special treatment needed      No further relevant information available.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:      CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:      Water with full jet
- 5.2 Special hazards arising from the substance or mixture      Formation of toxic gases is possible during heating or in case of fire.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment:      Do not inhale explosion gases or combustion gases.
- Additional information      Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures      Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid contact with skin and eyes
- 6.2 Environmental precautions:      Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- 6.3 Methods and material for containment and cleaning up:      Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Do not flush with water or aqueous cleansing agents
- 6.4 Reference to other sections      See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling      Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:      Store only in the original receptacle.
- Information about storage in one common storage facility:      Store away from foodstuffs.
- Further information about storage conditions:      Store in dry conditions.  
Protect from frost.  
Keep container tightly sealed.  
Recommended storage temperature: 5-30 °C
- Storage class:      13
- 7.3 Specific end use(s)      No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
 

14808-60-7 Quartz (SiO <sub>2</sub> )
OEL   Long-term value: 0.1 mg/m <sup>3</sup>
- Regulatory information      OEL: 2021 CoP for the Safety, Health and Welfare at Work
- Additional information:      The lists valid during the making were used as basis.

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2022


Version number 4 (replaces version 3)

Revision: 09.02.2022

Trade name: **KEMPERTEC KR Quartz sand**


(Contd. of page 2)

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2
- **Hand protection**



Protective gloves

Check protective gloves prior to each use for their proper condition.  
Only use chemical-protective gloves with CE-labelling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves** Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.1$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material** The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye/face protection**



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166
- **Body protection:** protective clothing (EN 13034)

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Light grey
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **Melting point/freezing point:**  $>1,600$  °C
- **Boiling point or initial boiling point and boiling range**  $>1,500$  °C
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** 6-7
- **Viscosity:**
- **Kinematic viscosity** Not applicable.
- **Dynamic:** Not applicable.
- **Solubility**
- **water:** Insoluble.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Density and/or relative density**
- **Density at 20 °C:**  $2.6$  g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Bulk density:**  $1,400$  kg/m<sup>3</sup>
- **Vapour density** Not applicable.

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2022

Version number 4 (replaces version 3)

Revision: 09.02.2022

Trade name: **KEMPERTEC KR Quartz sand**

(Contd. of page 3)

- |   |   |
|---|---|
| - Particle characteristics  | See item 3.                                   |
| <b>- 9.2 Other information</b>  |   |
| - Appearance:   |   |
| - Form:   | Solid   |
| - Important information on protection of health and environment, and on safety. |   |
| - Explosive properties:   | Product does not present an explosion hazard. |
| - Change in condition   |   |
| - Evaporation rate  | Not applicable.                               |

- |  |      |
|--|------|
| <b>- Information with regard to physical hazard classes</b>                        |      |
| <b>- Explosives</b>  |      |
|  | Void |
| <b>- Flammable gases</b>   | Void |
| <b>- Aerosols</b>  | Void |
| <b>- Oxidising gases</b>   | Void |
| <b>- Gases under pressure</b>  | Void |
| <b>- Flammable liquids</b>   | Void |
| <b>- Flammable solids</b>  | Void |
| <b>- Self-reactive substances and mixtures</b>                                     | Void |
| <b>- Pyrophoric liquids</b>  | Void |
| <b>- Pyrophoric solids</b>   | Void |
| <b>- Self-heating substances and mixtures</b>                                      | Void |
| <b>- Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| <b>- Oxidising liquids</b>   | Void |
| <b>- Oxidising solids</b>  | Void |
| <b>- Organic peroxides</b>   | Void |
| <b>- Corrosive to metals</b>   | Void |
| <b>- Desensitised explosives</b>   | Void |

## SECTION 10: Stability and reactivity

- |   |   |
|---|---|
| - 10.1 Reactivity                                   | No further relevant information available.            |
| - 10.2 Chemical stability                           |   |
| - Thermal decomposition / conditions to be avoided: | No decomposition if used according to specifications. |
| - 10.3 Possibility of hazardous reactions           | No dangerous reactions known.                         |
| - 10.4 Conditions to avoid                          | No further relevant information available.            |
| - 10.5 Incompatible materials:                      | No further relevant information available.            |

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.02.2022

Version number 4 (replaces version 3)

Revision: 09.02.2022

Trade name: **KEMPERTEC KR Quartz sand**

- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 4)

### SECTION 11: Toxicological information

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

- Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity 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.

**- 11.2 Information on other hazards**

**- Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- General notes: Not hazardous for water.

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal according to official regulations

**- European waste catalogue**

19 12 09 | minerals (for example sand, stones)

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name
- ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class Void
- 14.4 Packing group
- ADR, IMDG, IATA Void
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user Not applicable.

(Contd. on page 6)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2022

Version number 4 (replaces version 3)

Revision: 09.02.2022

Trade name: **KEMPERTEC KR Quartz sand**

(Contd. of page 5)

- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

- UN "Model Regulation": Void

## SECTION 15: Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Department issuing SDS: research & development

- Contact: research & development

- Date of previous version: 09.02.2022

- Version number of previous version: 3

- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative

- Sources

- [www.echa.europa.eu](http://www.echa.europa.eu)  
 - [www.baua.de](http://www.baua.de)

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- [www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp](http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp)  
 - [www.dguv.de/ifa/gestis/gestis-dnel-liste](http://www.dguv.de/ifa/gestis/gestis-dnel-liste)

- \* Data compared to the previous version altered.