



**Safety Data Sheet  
acc. to OSHA HCS**

Printing date 10/25/2023

Reviewed on 04/06/2023

## 1 Identification

- **Product identifier**
  - **Trade name:** **Memosil 2 Base**
  - -
  - **Application of the substance / the mixture** Dental impression material
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Kulzer GmbH  
Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522
  - **Information department:**  
Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545  
e-mail: customer.servicehkna@kulzer-dental.com
  - **Emergency telephone number:**  
Emergency CONTACT (24-Hour-Number)  
ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Precautionary statements**  
Avoid release to the environment.
- **Classification system**
  - **NFPA ratings for USA (scale 0-4)**  
  
Health = 0  
Fire = 1  
Reactivity = 0
  - **HMIS-Ratings (Scale 0-4)**  

|            |   |
|------------|---|
| HEALTH     | 0 |
| FIRE       | 1 |
| REACTIVITY | 0 |

  
Health = 0  
Fire = 1  
Reactivity = 0
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
  - **Description:** -

- **Dangerous components:**

|          |                              |                                                                         |          |
|----------|------------------------------|-------------------------------------------------------------------------|----------|
| 556-67-2 | octamethylcyclotetrasiloxane | Flammable Liquids 3, H226<br>Toxic to Reproduction 2, H361<br>PBT; vPvB | ≥0.1-<1% |
|----------|------------------------------|-------------------------------------------------------------------------|----------|

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· **Additional information** For the wording of the listed hazard phrases refer to section 16.

#### 4 First-aid measures

- **Description of first aid measures**
  - **After inhalation** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact** If skin irritation continues, consult a doctor.
  - **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Rinse opened eye for several minutes under running water. Then consult a doctor.
  - **After swallowing**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor**
  - **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:** No special measures required.
- **Additional information** -

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid contact with eyes and skin.
- **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).
- **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.
- 
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

All components have the value 30 ppm.

· **PAC-2:**

All components have the value 68 ppm.

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· **PAC-3:**

All components have the value 130 ppm.

## 7 Handling and storage

· **Handling**

· **Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

No special precautions are necessary if used correctly.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**556-67-2 octamethylcyclotetrasiloxane**

WEEL Long-term value: 10\* ppm  
\*OARS WEEL

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**

Check protective gloves prior to each use for their proper condition.  
recommended

· **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR

Nitrile rubber, NBR

· **Eye protection:** Safety glasses

· **Body protection:** Light weight protective clothing

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**9 Physical and chemical properties****· Information on basic physical and chemical properties****· General Information****· Appearance:**

|                   |                 |
|-------------------|-----------------|
| · Form:           | Pasty           |
| · Color:          | Colorless       |
| · Odor:           | Odorless        |
| · Odor threshold: | Not determined. |

**· pH-value:** Not determined.**· Change in condition**

|                                |              |
|--------------------------------|--------------|
| · Melting point/Melting range: | undetermined |
| · Boiling point/Boiling range: | undetermined |

**· Flash point:** >130 °C (>266 °F)**· Flammability (solid, gaseous)** Not applicable.**· Decomposition temperature:** Not determined.**· Ignition temperature:** Product is not selfigniting.**· Danger of explosion:** Product does not present an explosion hazard.  
Not determined.**· Explosion limits:**

|          |                 |
|----------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

**· Vapor pressure:** Not determined.**· Density at 20 °C (68 °F):** 0.96128 g/cm<sup>3</sup> (8.02188 lbs/gal)

|                    |                 |
|--------------------|-----------------|
| · Relative density | Not determined. |
| · Vapor density    | Not determined. |
| · Evaporation rate | Not determined. |

**· Solubility in / Miscibility with****· Water:** Not miscible or difficult to mix**· Partition coefficient (n-octanol/water):** Not determined.**· Viscosity:**

|              |                 |
|--------------|-----------------|
| · dynamic:   | Not determined. |
| · kinematic: | Not determined. |

**· Solvent content:****· Solids content:** 0.0 %**· Other information** No further relevant information available.**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** none

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· **Additional information:** -

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**11 Toxicological information**

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**556-67-2 octamethylcyclotetrasiloxane**

|            |          |                                          |
|------------|----------|------------------------------------------|
| Oral       | LD50     | 1,700 mg/kg (mouse)<br>4,800 mg/kg (rat) |
| Dermal     | LD50     | >2,400 mg/kg (rat)                       |
| Inhalative | LC50/4 h | 36 mg/l (rat)                            |

· **Primary irritant effect:**

· **on the skin:** Based on available data, the classification criteria are not met.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability**

**556-67-2 octamethylcyclotetrasiloxane**

biodegradability 3.7 % (not defined)

· **Behavior in environmental systems:**

· **Bioaccumulative potential**

**556-67-2 octamethylcyclotetrasiloxane**

Bioconcentration factor (BCF) 12.4 (fish)

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Not known to be hazardous to water.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

**14 Transport information**

· **UN-Number**

· DOT, ADR, IMDG, IATA

Void

· **UN proper shipping name**

· DOT, ADR, IMDG, IATA

Void

· **Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class

Void

· **Packing group**

· DOT, ADR, IMDG, IATA

Void

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

-

· **UN "Model Regulation":**

Void

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

· **Sara**

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

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|                                                                                             |
|---------------------------------------------------------------------------------------------|
| · <b>Chemicals known to cause reproductive toxicity for females:</b>                        |
| None of the ingredients is listed.                                                          |
| · <b>Chemicals known to cause reproductive toxicity for males:</b>                          |
| None of the ingredients is listed.                                                          |
| · <b>Chemicals known to cause developmental toxicity:</b>                                   |
| None of the ingredients is listed.                                                          |
| · <b>Carcinogenicity categories</b>                                                         |
| · <b>EPA (Environmental Protection Agency)</b>                                              |
| None of the ingredients is listed.                                                          |
| · <b>TLV (Threshold Limit Value)</b>                                                        |
| None of the ingredients is listed.                                                          |
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>                   |
| None of the ingredients is listed.                                                          |
| · <b>Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</b> |

**16 Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H226 Flammable liquid and vapor.  
H361 Suspected of damaging fertility or the unborn child.
- **Date of preparation / last revision** 10/25/2023
- **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  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flammable Liquids 3: Flammable liquids – Category 3  
Toxic to Reproduction 2: Reproductive toxicity – Category 2
- **\* Data compared to the previous version altered.**

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