



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

Printing date 03/06/2023

Reviewed on 03/06/2023

## 1 Identification


- **Product identifier**
  - **Trade name:** **Memoreg 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.servicehksa@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**

Carcinogenicity 1A	H350 May cause cancer.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Additional information:**

Since the product is a medical device in the sense of Directive 93/42/EEC (MDD) or the Regulation (EU) 2017/745 (MDR), that is intended for the end user and is used invasively or with physical contact, it is exempted from the classification and labeling obligation according to Regulation (EC) 1272/2008.
- **Label elements**
  - **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**  


GHS08
  - **Signal word** *Danger*
  - **Hazard-determining components of labeling:**  
*cristobalite*
  - **Hazard statements**

May cause cancer.  
Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
  - **Precautionary statements**

Do not breathe dust.  
Wash thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves / eye protection.  
Wear protective clothing.  
Get medical advice/attention if you feel unwell.
- **Additional information:** see 2.1

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- **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

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

- **Dangerous components:**

14464-46-1	cristobalite Carcinogenicity 1A, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372	50-75%
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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. 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.

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· **Additional information -**

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**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:**

14464-46-1	cristobalite	0.075 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	30 ppm
540-97-6	Dodecamethylcyclohexasiloxane	150 mg/m <sup>3</sup>

· **PAC-2:**

14464-46-1	cristobalite	33 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	68 ppm
540-97-6	Dodecamethylcyclohexasiloxane	1,700 mg/m <sup>3</sup>

· **PAC-3:**

14464-46-1	cristobalite	200 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	130 ppm
540-97-6	Dodecamethylcyclohexasiloxane	9,900 mg/m <sup>3</sup>

**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.

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## 8 Exposure controls/personal protection

### · Control parameters

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

##### **14464-46-1 cristobalite**

PEL	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; ½ value from resp.dust formulae Quartz
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

· **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 required.

##### · 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

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

· Form:	Pasty
· Color:	Pink
· Odor:	Characteristic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

#### · Change in condition

· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	>300 °C (>572 °F)

· **Flash point:** >130 °C (>266 °F)

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· <b>Flammability (solid, gaseous)</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard. Not determined.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure at 1732 °C (3,149.6 °F):</b>	13.5 hPa (10.1 mm Hg)
· <b>Density:</b>	Not determined
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>dynamic:</b>	Not determined.
· <b>kinematic:</b>	Not determined.
· <b>Other information</b>	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
- **Additional information:** -

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **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**

· <b>IARC (International Agency for Research on Cancer)</b>		
14464-46-1	cristobalite	1
· <b>NTP (National Toxicology Program)</b>		
14464-46-1	cristobalite	K
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

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· **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** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **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.

## 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

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b><br>· DOT, ADR, IMDG, IATA                                     | Void            |
| · <b>UN proper shipping name</b><br>· DOT, ADR, IMDG, IATA                       | Void            |
| · <b>Transport hazard class(es)</b><br>· DOT, ADR, ADN, IMDG, IATA<br>· Class    | Void            |
| · <b>Packing group</b><br>· DOT, ADR, IMDG, IATA                                 | Void            |
| · <b>Environmental hazards:</b>  | Not applicable. |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>Transport/Additional information:</b>                                       | -               |

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· **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**

14464-46-1 cristobalite

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

14464-46-1 cristobalite

A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14464-46-1 cristobalite

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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**

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

· **Date of preparation / last revision** 03/06/2023· **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)

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NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

Carcinogenicity 1A: Carcinogenicity – Category 1A

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

**\* Data compared to the previous version altered.**

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