

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 11.07.2023

Version number 3

Revision: 10.07.2023

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

- **1.1 Product identifier**
- **Trade name: SHERATANDEM 85**
- **Article number:**
301240
301245
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Application of the substance / the mixture:**
Two-component addition cure silicone putty for dental technology
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SHERA Werkstoff-Technologie GmbH & Co. KG
Espohlstraße 53
D-49448 Lemförde
GERMANY
sdb@shera.de
+ 49 (0) 54 43 – 99 33 – 0
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**
+49 5443 9933-0 This number is serviced during office hours.
Opening times: Monday to Thursday from 8 am - 5 pm, Friday from 8 am - 3 pm.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008:**
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:** Void.
- **Hazard pictograms:** Void.
- **Signal word:** Void.
- **Hazard statements:** Void.
- **Precautionary statements:** Void.
- **Additional information:**
Quartz / cristobalite: Fibres that are embedded in polymer are not likely to pose a health risk as long as they are processed under normal application conditions. Even though the product is graded in accordance with EU criteria, labelling is not required according to Article 23 and Annex 1 (section 1.3.4.1) of Directive n°1272/2008.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**
Polydimethylsiloxanes with inorganic filler material.
Component A, grey: Catalyst
Component B, coloured: Base, contains polymethyl hydrogen siloxane

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· Dangerous components:		
CAS: 14464-46-1 EINECS: 238-455-4	crystalite STOT RE 1, H372	25-<100%
CAS: 556-67-2 EINECS: 209-136-7 Index number: 014-018-00-1 Reg.nr.: 01-2119529238-36	octamethylcyclotetrasiloxane Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Chronic 1, H410 (M=10) PBT; vPvB	≥0.0025-<0.025%

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** The product can't be breathed in under normal circumstances.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Remove dirty clothing and wash before using again.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
In case of troubles or persistent symptoms, consult an ophthalmologist.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **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:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water.
Alkaline powder extinguishing agent.
- **5.2 Special hazards arising from the substance or mixture**
Combustible.
Component B: This product can produce hydrogen. Vapours can form mixtures with air which pose a risk of explosion.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Particular danger of slipping on leaked / spilled product.
Keep away from ignition sources.
- **6.2 Environmental precautions**
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up**
Pick up mechanically.
Component B: Do not use a basic product.

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· 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

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep receptacles tightly sealed.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and receptacles:

- Keep container in a well-ventilated, cool and dry place.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Storage class: No information available.

· 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:

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information:

- The lists valid during the making were used as basis.
- Quartz / cristobalite: Fibres that are embedded in polymer are not likely to pose a health risk as long as they are processed under normal application conditions.

· 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 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.
- **Respiratory protection:** Not required.
- **Hand protection**



Protective gloves

· Material of gloves:

Nitrile rubber, NBR

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.

· Not suitable are gloves made of the following materials: Natural rubber, NR

· Eye/face protection Not required.

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- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- | | |
|---|------------------------------------|
| · Colour: | Different, depending on coloring |
| · Odour: | Odourless |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | Undetermined. |
| · Flash point: | Not determined.
Not applicable. |
| · pH | Not applicable. |
| · Viscosity: | |
| · Kinematic viscosity | Not applicable. |
| · Dynamic: | Not applicable. |
| · Solubility | |
| · water: | Insoluble. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure: | Not applicable. |
| · Density and/or relative density | |
| · Density at 20 °C: | 1.8 g/cm ³ |

· 9.2 Other information

- | | |
|--|---|
| · Appearance: | |
| · Form: | Pasty |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product does not present an explosion hazard. |

· Information with regard to physical hazard classes

- | | |
|--|-------|
| · Explosives | Void. |
| · Flammable gases | Void. |
| · Aerosols | Void. |
| · Oxidising gases | Void. |
| · Gases under pressure | Void. |
| · Flammable liquids | Void. |
| · Flammable solids | Void. |
| · Self-reactive substances and mixtures | Void. |
| · Pyrophoric liquids | Void. |
| · Pyrophoric solids | Void. |
| · Self-heating substances and mixtures | Void. |
| · Substances and mixtures, which emit flammable gases in contact with water | Void. |
| · Oxidising liquids | Void. |
| · Oxidising solids | Void. |
| · Organic peroxides | Void. |
| · Corrosive to metals | Void. |
| · Desensitised explosives | Void. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.

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- **10.2 Chemical stability** No decomposition if used according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Component A: Unknown.
Component B: The product can produce hydrogen.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials**
Oxidizing agents, strong.
Alkalis (alkalis).
Metal salts and metal complexes.
- **10.6 Hazardous decomposition products**
No further relevant information available.
Component B: Reaction with alkalis, amines, strong acids, metal salts. The reaction occurs with formation of hydrogen. Explosion hazard.
Can be released in case of fire:
Carbon monoxide (CO).
Carbon dioxide (CO₂).
Hydrogen (H).
Poisonous gases / vapours.
Amorphous silica.

SECTION 11: Toxicological information

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

- **Acute toxicity:** No data available.

- **LD/LC50 values relevant for classification:**

556-67-2 octamethylcyclotetrasiloxane

Oral	NOAEL	960 mg/kg (Rabbit) (OECD 411)
Inhalative	NOAEL	1.82 mg/l (Rat) (OECD 453)

- **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**
Causes damage to organs through prolonged or repeated exposure.
- **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:**

556-67-2 octamethylcyclotetrasiloxane

EC50/48 h	>0.0029 mg/l (Daphnia (Daphnia magna)) (OECD 202)
LC50/96 h	>0.016 mg/l (Fish) (OECD 204)

- **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.

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- **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:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:** Waste disposal according to official state regulations.

- **Waste disposal key:**

The waste disposal code as prescribed in the European Waste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

- **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:**

- **Marine pollutant:** No.

- **14.6 Special precautions for user** Not applicable.

- **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**

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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

SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

- **Relevant phrases**

- H226 Flammable liquid and vapour.
- H361f Suspected of damaging fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Department of product security.

- **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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Repr. 2: Reproductive toxicity – Category 2
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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