

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 10.07.2023

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 60**
- **Article number:**
301270
301275
- **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:**
During opening hours: +49 5443 9933-0
Opening hours: Monday to Thursday from 7.30 a.m. to 5.30 p.m., Friday from 7.30 a.m. to 3.00 p.m

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
- **Dangerous components:**
Component A, grey:

(Contd. on page 2)

-GB-

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 10.07.2023

Version number 3

Revision: 10.07.2023

Trade name: SHERATANDEM 60

(Contd. of page 1)

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%

· **Ingredients 2. component product:**

Component B, colored:

CAS: 14464-46-1 EINECS: 238-455-4	crystalite	STOT RE 1, H372
--------------------------------------	------------	-----------------

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** The product can't be breathed in under normal circumstances.
- **After skin contact:** Remove dirty clothing and wash before using again.
- **After eye contact:** In case of troubles or persistent symptoms, consult an ophthalmologist.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** 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**
Particular danger of slipping on leaked / spilled product.
Keep away from ignition sources.
- **6.2 Environmental precautions** No special measures required.
- **6.3 Methods and material for containment and cleaning up** Component B: Do not use a basic product.
- **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.

GB

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 10.07.2023

Version number 3

Revision: 10.07.2023

Trade name: SHERATANDEM 60

(Contd. of page 2)

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:**

14464-46-1 cristobalite

MAK (Germany) Alveolar fraction

- **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.
The lists valid during the making were used as basis.
- **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.
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Hand protection**
The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **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.
- **Body protection:** Protective work clothing.

GB

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 10.07.2023

Version number 3

Revision: 10.07.2023

Trade name: SHERATANDEM 60

(Contd. of page 3)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- **Physical state** Solid
- **Colour:** Different, depending on coloring
- **Odour:** Odourless
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not determined.
- **Decomposition temperature:** Not determined.
- **pH** pH above 15.
- **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:** 1.7 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not applicable.

· 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.
- **Change in condition:**
- **Evaporation rate** Not applicable.

· 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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 10.07.2023

Version number 3

Revision: 10.07.2023

Trade name: SHERATANDEM 60

(Contd. of page 4)

· **Desensitised explosives**

Void.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.
- **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.
Based on available data, the classification criteria are not met.
 - **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) |
- **Serious eye damage/irritation** No data available.
 - **STOT-repeated exposure** Causes damage to organs through prolonged or repeated exposure.
 - **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.

(Contd. on page 6)

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 10.07.2023

Version number 3

Revision: 10.07.2023

Trade name: SHERATANDEM 60

(Contd. of page 5)

- **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:** Generally 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.
- **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 | Void. |
| · ADR, ADN, IMDG, IATA | Void. |
| · 14.2 UN proper shipping name | Void. |
| · ADR, ADN, IMDG, IATA | Void. |
| · 14.3 Transport hazard class(es) | Void. |
| · ADR, ADN, IMDG, IATA | Void. |
| · Class | Void. |
| · 14.4 Packing group | Void. |
| · 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**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31



Printing date 10.07.2023

Version number 3

Revision: 10.07.2023

Trade name: SHERATANDEM 60

(Contd. of page 6)

Employment restrictions concerning pregnant and lactating women must be observed.

- **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.**

GB