



Dent-e-con e.K.

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Material Safety Data Sheet according to the guideline 1907/2006/EC

STENSIL 85 + 90 + 95

Date of last alteration: 25.09.2008

01. Identification of the substance / preparation and of the company

Commercial Product Name: STENSIL 85
STENSIL 90
STENSIL 95

Use of the substance/preparation:
Professional. Putty for use in dental technology.

Manufacturer/Supplier: **Dent-e-con**
Gartenstraße 19
D-89173 Lonsee
Phone: +49 7336 9213369
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E-mail: info@dent-e-con.de
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+49 170 5792555 daily 24 h

02. Hazards identification

Classification: The product is not a hazardous preparation according to the guideline 1999/45/EC

Critical hazards to man and environment:
No special hazards known.

03. Composition / information on ingredients

Chemical characterization (preparation):
Contains polydimethylsiloxane with functional groups + fillers and pigment.
Catalyst additionally: Platinum-complex compound.

Hazardous ingredients: None.

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04. First-aid measures

- General information: In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).
- After inhalation: Provide fresh air.
- After skin contact: Remove the product mechanically by means of a cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).
- After eye contact: Rinse the open eyes immediately with plenty of water for at least 15 min. Seek immediately medical advice.
- After swallowing: Immediately rinse mouth well with water and drink plenty of water in small portions. Do not induce vomiting. If you feel unwell seek medical advice.
- Autoprotection of the first assistant: Take care of a sufficient autoprotection (hand protection, foil mask "life key").

05. Fire-fighting measures

- Suitable extinguishing media: Water mist, foam, carbon-dioxide, dry-powder.
- Extinguishing media which must not be used for safety reasons: Water-jet.
- Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases: Development of hydrogen may cause explosive hydrogen-air-mixtures.
- Special protective equipment for fire fighting: Use respiratory protection independent of recirculated air. Accomplish decontamination by means of explosion-proofed equipment.

06. Accidental release measures

- Personal precautions: If material is accidentally spilled, refer to the possible danger of skidding. Do not pass through the spilled material.
- Environmental precautions: Keep away from sewage treatment plants, in-shore waters and earth. Observe local byelaws.
- Methods for cleaning up: Remove mechanically or absorb with liquid binding material (sand, diatomaceous earth sawdust) and dispose of according to regulations (see section 13).

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07. Handling and storage

Handling:

Precautions for safe handling:

The usual precautions in handling with chemicals are to be observed. When using do not eat, drink or smoke.

Precautions against fire and explosion:

During filling and refilling, the material may become statically charged. Take measures against static discharges. Keep away from sources of ignition – No smoking.

Storage:

Conditions for storage rooms and vessels:

Store in cool, dry and well-ventilated place. Keep containers always tightly closed. Provide sufficient ventilation.

Advice for storage of incompatible materials:

Do not store with acids, lyes, alcohols, metallic powders and metallic oxides (release of hydrogen is favoured).

Further information for storage:

Keep at temperature not exceeding 25°C, 77°F. Keep away from humidity.

Definite use:

Putty for use in dental laboratory by trained specialist staff.

08. Exposure controls / personal protection

Exposure limit values:

No associated substances with specific working place control parameters.

Limitation and control of the exposition:

Limitation and control of the exposition at the place of work:

Personal protection equipment:

General protection and hygiene measures:

The usual precautions in handling with chemicals are to be observed. When using do not eat, drink or smoke.

Respiratory protection:

Not required.

Hand protection:

Protective gloves are recommended, e.g. such as gloves of nitril rubber, but never use latex gloves (impairment of the setting reaction).

Eye protection:

To avoid mechanical injuring of the eyes, wear protective goggles.

Limitation and control of the environmental exposition:

Prevent the material from getting into in-shore waters and earth.

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09. Physical and chemical properties

| | | |
|-------------|------------------|-------------------------------------|
| Appearance: | Form: | Paste. |
| | Colour: | Base: Blue. - Catalyst: Grey-Beige. |
| | Odour | |
| | STENSIL 85 + 90: | Faintly typical. |
| | STENSIL 95: | Like peppermint. |

Important information about the protection of health, safety and the environment:
(Method 67/548/EEC)

| | | |
|-------------------------------|---|-----------|
| Flash point: | > 100°C/212°F | DIN 51755 |
| Ignition temperature: | > 400°C/752°F | DIN 51794 |
| Oxidising properties: | Increased temperatures advance the release of hydrogen. | |
| Explosion limits: | No data available. | |
| Vapour pressure: | < 10 hPa at 20°C/68°F. | DIN 51757 |
| Density at 20°C: | 1,56 g/m ³ (STENSIL 85 + 90) 1,84 g/m ³ (STENSIL 95) | |
| Water solubility/miscibility: | Virtually insoluble. | |
| pH value: | Not applicable. | |
| Distribution coefficient | | |
| Octanol / water: | Not applicable. | |
| Viscosity at 23°C/73°F: | approx. 10 Mio mPa.s (Brookfield) | |

Further information:

Thermal decomposition: > 180°C/356°F

10. Stability and reactivity

Conditions to avoid: Temperatures > 150°C/302°F (see hazardous decomposition products).

Materials to avoid: Reacts with acids, lyes, alcohols, metallic powders and metallic oxides realising hydrogen.

Hazardous decomposition products:

In case of thermic decomposition hydrogen is released. At a temperatures of approx. 150°C / 302°F a small amount of formaldehyde can be released by oxidative degradation.

11. Toxicological information

General information: According to present experience, the material shows no health risk if handled appropriately, observing the usual hygiene at place of work. According to our present knowledge the material is neither mutagenic nor carcinogenic nor teratogenic.

Toxicological tests:

Acute oral toxicity: For the product itself no toxicological data are available. In products with a comparable composition, a LD₅₀ (orally, species rat) of more than 5.000 mg/Kg has been found.

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12. Ecological information

Ecological toxicity:

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):
According to present experience, no adverse effects in sewage treatment plants are to be expected.

Mobility:

The product forms a thin oily layer on the water surface. It is adsorbed by suspended particles. Separation by sedimentation.

Persistence and degradability:

Biodegradation / further information:

The product is biologically not degradable. In a certain degree, polydimethylsiloxanes are degradable by abiotic processes.

Bio-accumulation potential:

Further information: A biological accumulation is improbable.

Other harmful effects:

Unknown.

Further ecotoxicological effects:

If handled and applied appropriately, no environmental problems are to be expected.

13. Disposal considerations

Material:

Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe the local byelaws. European Waste Catalogue Ref.No.: 07 02 17

Contaminated packaging:

Recommendation: Fully empty containers (no tear drops, no powder rest, scraped carefully) Containers may be recycled or re-used. Observe the local/national byelaws.

14. Transportation information

Land transportation ADR/RDI and GGVSE/GGVE:

GGVSE/GGVE class: Non hazardous material.

ADR/RDI class: Non hazardous material.

Transportation emergency card number:

Warning board – Hazard No.:

Nomenclature:

Further information:

Limited quantities:

Inland navigation ADN/ADNR:

Further information: Non hazardous material.

Transportation by sea IMDG/GGVSee:

IMDG/GGVSee class: Non hazardous material.

EMS-No.:

Marine pollutant:

Proper shipping name:

Technical name:

LTD. QTY.:

Air transportation ICAO-TI and IATA-DGR transportation by air:

ICAO/IATA-class: Non hazardous material.

Proper shipping name:

Technical name:

Further information:

Air mail Transportation:

Permitted.

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15. Regulatory information

EC regulations:

Identification according to EC directives:

According to the Regulations for Hazardous Goods and the corresponding EC-Guidelines the product is not to be labelled.

National regulations (Germany):

Classification of possible adverse effects in the aquatic environment (WGK):

Class 1 (slight adverse effects in the aquatic environment).

16. Other information

Wording of the R-phrases under section 3:

None.

Literature register:

Sicherheitstechnische Kenndaten chemischer Stoffe, ecomed-Verlag, Loseblattsammlung mit Ergänzungslieferungen.

Handbuch der Abfallentsorgung, ecomed-Verlag, Loseblattsammlung mit Ergänzungslieferungen.

Allgemeine Verwaltungsvorschrift zur Änderung der Verwaltungsvorschrift wassergefährdender Stoffe – VwVwS vom 27. Juli 2005.

Safety data sheets and further information from manufacturers/distributors.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.