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DETAX
Art. -No., product name: **03117 / 02517 / 02985 blue eco stone, base + catalyst**

1 Identification of the substance or preparation and of the company

1.1 Identification of the substance/the preparation:
Commercial Product Name: blue eco stone

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

1.3 Company / undertaking identification:
Manufacturer / distributor: DETAX GmbH & Co. KG
Street / POB-No.: Carl-Zeiss-Str. 4
State / postal code / city: D-76275 Ettlingen
Telephone: +49 7243/510-0 Telefax: +49 7243/510-100
E-Mail: post@detax.de

1.4 Emergency number: +49 7243/510-0
This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.).

2 Hazards identification

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

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

3 Composition / information on ingredients

3.1 Chemical characterisation (preparation):
Description: Contains polydimethylsiloxane with functional groups + fillers and pigment;
catalyst additionally: platinum-complex compound.

3.2 Hazardous ingredients: None.

4 First aid measures

4.1 General information: In case of accident or if you feel unwell, seek medical advice (if possible, show the label or this MSDS).

4.2 After inhalation: Provide for fresh air.

4.3 After contact with the skin: Remove the product mechanically by means of a cloth or paper. Wash with plenty of water and soap. In case of visible skin reaction or complaints, seek medical advice (if possible, show the label or this MSDS).

4.4 After contact with the eyes: Rinse the open eyes immediately with plenty of water for at least 15 minutes, seek immediately medical advice.

4.5 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.

4.6 Autoprotection of the first assistant: Take care of a sufficient autoprotection (hand protection, foil mask “Life key”).

5 Fire fighting measures

5.1 Suitable extinguishing media: Water mist, foam, carbon dioxide, dry powder.

5.2 Extinguishing media which must not be used for safety reasons: Water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Development of hydrogen may cause explosive hydrogen-air-

mixtures.

5.4 Special protective equipment for fire fighting: Use respiratory protection independent of recirculated air. Accomplish decontamination by means of explosion-proofed equipment.

6 Accidental release measures

6.1 Personal precautions: If material is accidentally spilled, refer to the possible danger of skidding. Do not pass through the spilled material.

6.2 Environmental precautions: Keep away from sewage treatment plants, in-shore waters and earth. Observe local byelaws.

6.3 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).

7 Handling and storage

7.1 Handling:
Precautions for safe handling: The usual precautions in handling with chemicals are to be observed. When using to 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.

7.2 Storage:
Conditions for storage rooms and vessels: Store in a cool, dry and well-ventilated place. Keep containers always tightly closed. Provide for 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 ^{o}C / 77 ^{o}F.
Keep away from humidity.

7.3 Definite use: Putty for use in dental laboratories by trained specialist staff.

8 Exposure controls and personal protection

8.1 Exposition limit values: No associated substances with specific working place control parameters.

8.2 Limitation and control of the exposition
8.2.1 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 to not eat, drink or smoke.

Respiratory protection: Not required.

Hand protection: Protective gloves are recommended, e.g. such as gloves of nitrile rubber, but never use latex gloves! (impairment of the setting reaction).

Eye protection: To avoid mechanical injuring of the eyes, wear protective glasses.

Body protection: Wear working clothing.

8.2.2 Limitation and control of the environmental exposition: Prevent the material getting into sewage treatment plants, in-shore waters and earth.

9 Physical and chemical properties

9.1 Appearance

Form: paste
Colour: base: dark blue • catalyst: white
Odour: faintly typical

9.2 Important information on health and environmental protection and on safety:

			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	
Density	: =	approx. 1.95 g/cm³ at 20 °C/68 °F	DIN 51757
Solubility in water	: =	virtually insoluble	
pH-value	:	n.a.	
Distribution coefficient octanol / water:		n.a.	
Viscosity, dynamic	: =	approx. 10 Mio. mPa.s at 23 °C/73 °F	Brookfield

9.3 Further information:
Thermal decomposition : = > 180 °C/356 °F

10 Stability and reactivity

10.1 Conditions to avoid: Temperatures > 150 °C/302 °F (see section 10.3).

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

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

11 Toxicological information

11.0 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.

11.1 Toxicological tests
Acute toxicity
Acute oral toxicity: For the product itself no toxicological data are available. In products with a comparable composition, a LD_{50} (orally, species rat) of more than 5 000 mg/kg has been found.

12 Ecological information

12.1 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.

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

12.3 Persistence and degradability
Biodegradation / further information: The product is biologically not degradable. In a certain degree, polydimethylsiloxanes are degradable by abiotic processes.

12.4 Potential of biological accumulation: A biological accumulation is improbable.

12.5 Other harmful effects: Unknown.

12.6 Further ecotoxicological effects: If handled and applied appropriately, no environmental problems are to be expected.

13 Disposal considerations

13.1 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

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

14 Transportation information

14.1 Land transportation ADR/RDI and GGVS/GGVE:
GGVS/GGVE-class..... : Non-hazardous material
ADR/RID-class..... : Non-hazardous material
Transportation emergency card number:
Warning board - Hazard No.:
Nomenclature..... :
Further information..... :
Limited Quantities ..... :

14.2 Inland navigation ADN/ADNR:
Further information: Non-hazardous material

14.3 Transportation by sea IMDG/GGVsea:
IMDG/GGVsea-class .. : Non-hazardous material
EmS-No..... :
Marine pollutant ..... :
Proper shipping name.. :
Technical name..... :
LTD. QTY..... :

14.4 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

15 Regulatory information

15.1 National regulations (Germany):
Observe local/national byelaws.

Information for labelling is given in section 2 of this document.

Classification of possible adverse effects in the aquatic environment (WGK):
Class 1 (slight adverse effects in the aquatic environment).

16 Other information

16.1 Wording of the R-phrases under section 3: None.

16.2 Further information
Explanation of the abbreviations:
n.a. = not applicable n.s. = not subject to

16.3 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

16.4 Product:
The given information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations.