

EU – Safety data sheet

according to RL 91 / 155 / EWG

Revision: 01.07.2009

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Printing date: 01. September 2011

Diamond polishing paste D 7_ D 15, TEK-1 POL

1. Identification of substance / Preparation and company

Identification of the substance or preparation

Commercial product name: Diamond polishing paste D 7, Diamond polishing paste D 15, TEK1- POL
Company / Manufacturer: SILADENT Dr. Böhme & Schöps GmbH
Im Klei 26
DE – 38644 Goslar
Tel.: +49-5321-3779-0
Fax: +49-5321-389632
info@sbs-dental.de
www.sbs-dental.de

2. Composition / Information on Ingredients

2.1 Chemical characterization

Description: Mixture consisting of the following components
Substance name: Mixture of Polyethylene (average molecular weight: 300 – 6000)
CAS-No: 25322-68-3
EINECS-No: 500-038-2
Diamondpowder: CAS-No: 7782-40-3 / EINECS-No: 231-953-2

2.2 Dangerous components:

void
Additional information: For the wording of the listed risk phrases refer to section 16.

3. Hazards identification

Hazard designation: void
Human and environmental effects: The product does not have to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. First aid measures

General information: Personal protection for the First Aider. No special measure required.
After inhalation: Take affected persons into the open air and position comfortably. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into stable side position for transport.
After contact with skin: Remove contaminated clothing. Wash with water and rinse thoroughly. Or better; Wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. The product is not skin irritation.
After contact with eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult oculist.
After swallowing: Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.
After swallowing large quantities: Seek medical treatment.
A vomiting person on the side, lying on the back, turn. If vomiting, hold the head of the vomiting person low with the body in a prone position in order to avoid the entry of liquid into the respiratory tract.

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Information for doctor:	The toxicological properties of this material have not been fully investigated. No toxic effects are to be expected when the product is handled appropriately.
The following symptoms may occur:	Irritations after contact with eyes, skin and mucous membrane. A description of possible other symptoms is not present at the moment.
Danger:	Slightly irritation on eyes, skin and respiratory tract. We have presented no indications to user acute dangers for the health. However, when the product is handled appropriately, hazardous effects are unlikely to occur.
Treatment:	Further health dangers cannot be excluded however. Elemental assistance. Decontamination. Treat symptomatically and supportively.

5. Fire fighting measures

5.1 Suitable extinguishing media:	CO ₂ , extinguishing powder or water fog. Fight larger fires with water fog. Fight larger fires with water fog or alcohol-resistant foam.
5.2 Extinguishing media which must not be used for safety reasons:	Water with a full water jet.
5.3 Special hazards:	Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire: carbon monoxide and carbon dioxide.
5.4 Protective equipment: Additional information:	Wear self-contained breathing apparatus. Wear full protective suit. Collect contaminated fire fighting water separately. It must not enter drains. Cool endangered containers with water spray jet. Heating causes a rise in pressure, risk of bursting. Container explosion may occur under fire conditions.

6. Accidental release measures

6.1 Personal precautions:	Wear protective equipment. Keep unprotected persons away. Use breathing protection against the effects of fumes / dust / aerosol. Keep away from ignition sources. Ensure adequate ventilation. Particular danger of slipping on leaked / spilled product. Bring persons out of danger.
6.2 Environmental precautions:	Do not allow to enter sewage systems, water bodies, groundwater or soil. Inform respective authorities in case large quantities of the product reach water, sewage system or soil
6.3 Methods for cleaning up:	Ensure adequate ventilation. Collect mechanically. Absorb liquid components with liquid-binding material. Clean up affected area. May be recycled or disposed of in appropriate containers.
6.4 Additional information:	Dispose of contaminated material as waste according to item 13. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. Handling and storage

7.1 Handling Precautions for safe handling:	Keep containers tightly sealed. Prevent formation of aerosols. Ensure good ventilation / exhaustion at the workplace.
Precautions against fire and explosion:	Substance / product is flammable. Forms explosive mixtures with air on intense heating. Fire fighting equipment must be available.

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Protect from heat. Keep ignition sources away – do not smoke.
Protect against electrostatic charges.

7.2 Storage

Conditions of storage rooms and vessels:

Advice of storage of incompatible materials:

Further information for storage:

Recommended storage temperature:

Store in cool location. Store in original container if possible. Prevent any penetration into the ground.

Keep away from foodstuffs. Do not store together with materials / products which can form dangerous chemical reactions.
See point 10: stability and reactivity.

Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Store container in a well ventilated position.

< + 30°C

8. Exposure controls / Personal protection

Further information for system design and engineering measures:

No further data; see item 7

8.1 Components with critical values that require monitoring at the workplace:

Additional information:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
The lists that were valid during the compilation were used as basis.

8.2 Personal protective equipment

General protection and hygiene measures:

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Do not eat, drink or smoke while working.

Respiratory protection:

If used in closed systems or well-ventilated area breathing protection is not necessary. Use breathing protection only when vapours, aerosol or mist is formed.
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Filter A / P2. or Filter A / P3.

Hand protection:

Chemical-protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Check protective gloves prior to each use for their proper condition.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Preventive skin protection by use of skin-protection agents is recommended.

Material of gloves:

Full contact:
e.g. Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
e.g. Fluorocarbon rubber (viton)
Recommended thickness of the material: ≥ 0.7 mm
e.g. Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.11 mm
e.g. Natural rubber, NR
Recommended thickness of the material: ≥ 0.5 mm
e.g. Chloroprene rubber, CR
Recommended thickness of the material: ≥ 0.5 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

ASK THE MANUFACTURER FOR SUITABLE MATERIAL:

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Penetration time of glove material:	Full contact: Permeation time: > 480 min (8 h), EN 374 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:	Strong gloves Leather gloves
Eye protection:	Safety glasses
Body protection:	Light weight protective clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

9. Physical and chemical properties

9.1 General information

Form:	pasty
Colour:	white-grey
Smell:	nearly odourless
Melting point / range:	> 30 - < 60°C
Flash point:	> 200°C
Ignition temperature:	> 320°C
Danger of explosion:	Product is not explosive. However, formation of explosive air / steam mixtures is possible.
Steam pressure at 20°C:	< 0.1 hPa
Density at 20°C:	~ 1.2 g / cm ³
Solubility in / Miscibility with water:	fully miscible
pH-value (100 g / l) at 20°C:	4 – 7

10. Stability and reactivity:

Conditions to be avoided:	No decomposition if used according to specifications. To avoid thermal decomposition do not overheat. Flames, sparks, electrostatic charges.
Decomposition will begin at:	~ 360°C
Materials to be avoided:	Oxidizing agents
Dangerous reactions:	Forms explosive mixtures with air on intense heating. Reacts with strong oxidizing agents.
Dangerous products of composition:	Can be released in case of fire. Carbon monoxide and carbon dioxide.

11. Toxicological information

11.1 Acute toxicity

LD / LC50 values that are relevant for classification:

25322-68-3 polyethylene glycol

LD 50 oral (rodent - rat): > 15000 mg / kg

LD 50 skin (rodent – rat): > 2000 mg / kg

7782-40-3 Diamond

LD 50 oral (mouse): 10000 mg / kg

11.2 Primary irritant effect

On the skin: Irritation possible

On the eye: Irritation possible

Sensitization: No sensitizing effect known.

Additional toxicological information: The product is not marking requiring due to the computation method of the general classification guideline for preparing the EEC in the last valid version.

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The toxicological properties of this material have not been fully investigated.
Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

- 12.1 Information on elimination (persistence and degradability)
Method: Biologic degradation
Other information: Moderately (partly) biodegradable
- 12.2 Behaviour in environmental systems
Mobility and bioaccumulation: Product is not expected to bio accumulate
- 12.3 Ecotoxicological effects
Aquatic toxicity: 25322-68-3 polyethylene glycol
EC 50: > 1000 mg / l (BACTERIAL TOXICITY)
LC 50 (leuciscus idus): 48 h > 10 mg / l (FISH TOXICITY)
- 12.4 Additional information
AOX-indication: The product does not contribute to the AOX value of the waste water.
General notes: Must not reach sewage water or drainage ditch undiluted or unneutralized. Do not allow product to reach ground water, water bodies, sewage system or soil.

13. Disposal considerations

- 13.1 Product
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.
- 13.2 European waste catalogue:
07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 07 00 Wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 99 Wastes not otherwise specified
- 13.3 Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.

14. Transport information

- Land transport ADR / RID (cross-border), ADR / RID - GGVS / E Class: -
Maritime transport IMDG / GGVSea, ICAO / IATA Class: -
Air transport ICAO-TI and IATA-DGR, ICAO / IATA Class: -
Transport / Additional information: Not dangerous according to the above specifications.

15. Regulatory information

- Designation according to EC guidelines: The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV). Observe the normal safety regulations when handling chemicals.

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16. Other information

These statements solely describe the safety demands of the product and base according to the best of our belief on our today's knowledge. They, however, do not represent any assurance towards properties of the product within the sense liability, resp. guaranty regulations and thus are given without any obligation.

16.1 Sources:

The indicated sources refer only to information to the used single substances and not to the mixture.

Information of distributor: European Chemicals Bureau [<http://ecb.jrc.it/>]

Manager of chemicals, KCL-Software for hand protection:

Environmental Health and Toxicology National Library of Medicine TOXNET

<http://sis.nlm.nih.gov/enviro.html>