

## Diamond Polishing Paste D7\_D15

### 1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Diamond Polishing Paste D7\_D15  
 Company / Manufacturer: SILADENT Dr. Böhme & Schöps GmbH  
 Im Klei 26  
 DE - 38644 Goslar  
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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Void.

Classification system: The classification is in line with current EU lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Additional information: For this product a safety data sheet is no legal obligation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void.

Hazard pictograms: Void.

Signal word: Void.

Hazard statements: Void.

#### 2.3 Other hazards:

Results of PBT and vPvB assessment

PBT: No.

vPvB: No.

### 3. Composition/ information on ingredients

#### 3.1 3.2 Mixtures

Description: Diamond suspension

Non-dangerous Components:		
CAS: 7782-40-3	Diamond	2,5-10%
EINECS: 231-953-2		

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

### 4. First aid measures:

#### 4.1 Description of first aid measures

General information: Personal protection for the First Aider. If unconscious, place in recovery position and seek medical advice.

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.

After skin contact: Remove contaminated clothing. Wash off with plenty of water. Or better; Wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult Oculist.

After swallowing: Rinse out mouth and then drink (two glasses at the most) water. Do not induce vomiting. Consult doctor if feeling unwell. After swallowing large quantities: Call for medical help. Turn a vomiting person on the side if lying on the back. If vomiting occurs, the head should be kept low.

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- 4.2 Most important symptoms and effects, both acute and delayed:  
Information for doctor:  
  
Danger:
- Irritations after contact with eyes, skin and mucous membrane.  
Possible other symptoms are currently not known.  
The toxicological properties of this material have not been fully investigated. No toxic effects are to be expected when the product is handled appropriately.  
Slightly irritation on eyes skin and mucous membrane.  
There are at present no indications to further acute dangers for the health.  
However, when the product is handled appropriately, hazardous effects are unlikely to occur.  
Further health dangers cannot be excluded however.
- 4.3 Indication of any immediate medical attention and special treatment needed:
- Elemental assistance. Decontamination.  
Treat symptomatically and supportively.*

**5. Fire Fighting measures:**

- 5.1 Extinguishing media  
Suitable extinguishing agents:  
  
For safety reasons unsuitable extinguishing agents:
- CO<sub>2</sub>, extinguishing powder or water fog. Fight larger fires with water fog or alcohol-resistant foam.  
Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture:
- Formation of poisonous gases during heating or in fires.  
Can be released in case of fire:  
Carbon monoxide and carbon dioxide.
- 5.3 Advice for firefighters  
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, protective equipment and emergency procedures:
- Wear protective equipment. Keep unprotected persons away.  
Use breathing protection against the effects of fumes/dust/aerosol. Keep away from sources of ignition.  
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 and material for containment and 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. Dispose of contaminated material as waste according to item 13.
- 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 information on disposal.

**7. Handling and Storage:**

- 7.1 Precautions for safe handling:  
  
Hygiene measures:
- Keep containers tightly closed.  
Ensure good ventilation/exhaustion at the workplace.  
Keep away from foodstuffs, beverages and feeding stuff.  
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.



according to 1907/2006/EC, Article 31

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<p>Information about protection against explosions and fires:</p>	<p>Substance/product is flammable. Forms explosive mixtures with air on intense heating. Fire-fighting equipment must be available. Protect from heat. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.</p>
<p>7.2 Conditions for safe storage, including any Requirements to be met by storerooms and containers:</p> <p>Information about storage in one common storage facility:</p> <p>Further information about storage conditions:</p> <p>Recommended storage temperature:</p>	<p>incompatibilities</p> <p>Store in cool location. Store in original container if possible. Prevent any penetration into the ground.</p> <p>Store away from foodstuffs. Do not store together with materials/products which can form dangerous chemical reactions. See point 10: stability and reactivity.</p> <p>Store in cool, dry conditions in well closed containers. Protect from heat and direct sunlight. Store container in a well ventilated position.</p> <p>+5 °C - &lt; +30 °C</p>
<p>7.3 Specific end use(s):</p>	<p>No further relevant information available.</p>
<p><b>8. Exposure controls / Personal protection:</b></p>	
<p>Additional information about design of technical systems:</p> <p>8.1 Control parameters</p> <p>Components with critical values that require monitoring at the workplace:</p> <p>DNELs:</p> <p>PNECs:</p> <p>Additional information:</p>	<p>No further data; see item 7.</p> <p>The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.</p> <p>No data available.</p> <p>No data available.</p> <p>The lists that were valid during the compilation were used as basis.</p>
<p>8.2 Exposure controls</p> <p>Personal protective equipment:</p> <p>General protective and hygienic measures:</p> <p>Breathing equipment:</p> <p>Recommended filter device for short term use:</p>	<p>The usual precautionary measures should be adhered to in handling the chemicals.</p> <p>If used in closed systems or well-ventilated area breathing protection is not necessary. Required when vapours, aerosol or mist are generated.</p> <p> Filter A/P2. or Filter A/P3.</p> <p>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.</p>
<p>Protection of hands:</p>	<p> Chemical-protective gloves</p> <p>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-protecting agents is recommended.</p>

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Material of gloves:

Full contact:

eg Chloroprene rubber, CR

Recommended thickness of the material:  $\geq 0,6$  mm

eg Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0,11$  mm

eg Natural rubber, NR

Recommended thickness of the material:  $\geq 0,5$  mm

eg Butyl rubber, BR

Recommended thickness of the material:  $\geq 0,5$  mm

eg Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0,7$  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 to 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.

Penetration time of glove material:

Full contact.

Permeation time:  $> 480$  min (8h) 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 with side protection.

Body protection:

Protective work 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 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Pasty

Colour:

White - grey

Smell:

nearly odourless

Odour threshold:

No data available

pH-value (50 g/l) at 20 °C:

~4 - 7

Change in condition

Melting point/Melting range:

 $>30$  -  $<60$  °C

Boiling point/Boiling range:

No data available

Flash point:

 $> 200$  °C (c.c.)

Ignition temperature:

 $\geq 320$  °C

Decomposition temperature:

~ 360 °C

Danger of explosion:

Product is not explosive. However, formation of explosive air/steam mixtures is possible by heating.

Critical values for explosion:

Lower:

No data available.

Upper:

No data available.

Vapour pressure:

 $< 0,1$  hPa**Vapour Density (air=1):**

No data available.

Density at 20 °C:

~1,2 g/cm<sup>3</sup>

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## Diamond Polishing Paste D7\_D15

Solubility in / Miscibility with Water at 20 °C:	Fully miscible.
Partition coefficient (n-octanol/water):	No data available.
Viscosity:	
dynamic:	No data available.
kinematic:	No data available.
9.2 Other information	No further relevant information available.

### 10. Stability and Reactivity:

10.1 Reactivity	
10.2 Chemical stability	
Conditions to be avoided:	No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
Decomposition will begin at:	Decomposition at: ~ 360 °C
10.3 Possibility of hazardous reactions:	Forms explosive mixtures with air on intense heating. Reacts with strong oxidizing agents.
10.4 Conditions to avoid:	Flames, sparks, electrostatic charges.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	Can be released in case of fire: Carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> )

### 11. Toxicological Information:

11.1 Information on toxicological effects	
Acute toxicity:	
LD/LC50 values that are relevant for classification:	Quantitative data on the toxicity of this product are not available.
Primary irritant effect:	
on the skin:	Results from bioassays are not available (irritation possible).
on the eye:	Results from bioassays are not available (irritation possible).
Sensitisation:	Results from bioassays are not available. No sensitizing effect known.
Subacute to chronic toxicity:	
Mutagenic activity:	No data available.
Carcinogenic activity:	No data available.
Teratogenic activity:	No data available.
Fertility impairment:	No data available.
Additional toxicological information:	The toxicological properties of this material have not been fully investigated. With proper contact and use as directed the product after our experiences and the information present to us causes no effects injurious to health. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. The substance / product should be handled with the care usual when dealing with chemicals.

### 12. Ecological Information:

12.1 Toxicity	
Aquatic toxicity:	No data available.
Terrestrial toxicity:	No data available.
12.2 Persistence and degradability:	Moderately /partly biodegradable.
12.3 Bioaccumulative potential:	Product is not expected to bioaccumulate.
12.4 Mobility in soil:	No data available.
Additional ecological information:	

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General notes: Quantitative data on the ecological effect of this product are not available. Do not allow product to reach ground water, water bodies, sewage system or soil.

12.5 Results of PBT and vPvB assessment

PBT: No.

vPvB: No.

12.6 Other adverse effects: No further relevant information available.

**13. Disposal Considerations:**

13.1 Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue: Disposal must be made according to official regulations. A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. In agreement with the waste code must be determined regional waste disposal authority or company.

Uncleaned packagings: Disposal must be made according to official regulations.  
Recommendation:

**14. Transport Information:**

14.1 UN-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: Not applicable.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": -

**15. Regulatory Information:**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations: Major Accident Hazard - Seveso Not regulated.

Directive 96/82/EC: A Chemical Safety Assessment has not been carried out.

15.2 Chemical safety assessment:

**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 of liability, resp. guaranty regulations and thus are given without any obligation.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)