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**Ultrasonic polishing paste cleaner**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product identifier  
Tradename: Ultrasonic polishing paste cleaner
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses: Ultrasonic polishing paste cleaner  
Uses advised against: None known.
- 1.3 Details of the supplier of the safety data sheet  
Manufacturer/Supplier: ERNST HINRICHS Dental GmbH  
Street / mailbox: Borsigstr. 1  
Country code. / postal code / city: D - 38644 Goslar  
Phone: 0 53 21 / 5 06 24  
Fax: 0 53 21 / 5 08 81  
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de  
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number  
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture: Eye Irrit. 2:H319 Causes serious eye irritation.

- 2.2 Label elements  
Hazard pictograms:



GHS07  
Warning

Signal word:

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P280 Wear eye protection / face protection

P337+P313 If eye irritation persists: Get medical advice / attention.

P260 Do not breath spray.

Cleaner, 648/2004/CE, contains: < 5% non-ionic surfactants  
< 5% anionic surfactant

- 2.3 Other hazards

Human health dangers: Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards: Does not contain any PBT or vPvB substances.

Other hazards: Further hazards were not determined with the current level of knowledge.

**SECTION 3: Composition/information on ingredients**

Product-type: The product is a mixture.

Range [%]	Substance
5 - < 0	2-(2-Butoxyethoxy)ethanol
	CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
	GHS/CLP: Eye Irrit. 2: H319
1 - <3	Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine
	CAS: 85480-55-3, EINECS/ELINCS: 287-335-8
	GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412

Comment on component parts: Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.



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**SECTION 4: First aid measures**

<p>4.1 Description of first aid measures</p> <p>General information:</p> <p>After inhalation:</p> <p>After skin contact:</p> <p>After eye contact:</p> <p>After swallowing:</p>	<p>Take off contaminated clothing and wash before reuse. Ensure supply of fresh air. In the event of symptoms seek medical treatment. When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Seek medical advice immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Irritant effects.</p>
<p>4.2 Most important symptoms and effects, both acute and delayed:</p>	<p>Irritant effects.</p>
<p>4.3 Indication of any immediate medical attention and special treatment needed:</p>	<p>Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs.</p>

**SECTION 5: Firefighting measures**

<p>5.1 Extinguishing media</p> <p>Suitable extinguishing agents:</p> <p>For safety reasons unsuitable extinguishing agents:</p>	<p>Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered. Full water jet.</p>
<p>5.2 Special hazards arising from the substance or mixture:</p>	<p>Risk of formation of toxic pyrolysis products.</p>
<p>5.3 Advice for firefighters</p>	<p>Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.</p>

**SECTION 6: Accidental release measures**

<p>6.1 Personal precautions, protective equipment and emergency procedures:</p>	<p>Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.</p>
<p>6.2 Environmental precautions:</p>	<p>Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).</p>
<p>6.3 Methods and material for containment and cleaning up:</p>	<p>Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.</p>
<p>6.4 Reference to other sections:</p>	<p>See SECTION 8+13</p>

**SECTION 7: Handling and storage**

<p>7.1 Precautions for safe handling</p> <p>Information about protection against explosions and fires:</p>	<p>Use only in well-ventilated areas. Do not eat, drink, smoke or take drugs at work. Use barrier skin cream. Wash hands before breaks and after work. Take off contaminated clothing and wash before reuse.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	<p>Keep only in original container. Prevent penetration into the ground. Do not store together with food and animal food/diet.</p>



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Keep container tightly closed.  
Keep container in a well-ventilated place.  
Keep away from frost.  
Protect from heat/overheating.  
See product use, SECTION 1.2

7.3 Specific end use(s)

**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

**Ingredients with occupational exposure limits to be monitored (GB)**

Substance
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Long-term exposure: 10 ppm, 67,5 mg/m <sup>3</sup>
Short-term exposure (15-minute): 15 ppm, 101,2 mg/m <sup>3</sup>

**Ingredients with occupational exposure limits to be monitored (EU)**

Substance / EC LIMIT VALUES
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Eight hours: 10 ppm, 67,5 mg/m <sup>3</sup>
Short-term (15-minute): 15 ppm, 101,2 mg/m <sup>3</sup>

**DNEL**

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
worker, inhalative, Acute - local effects: 101,2 mg/m <sup>3</sup> .
worker, inhalative, Long-term - local effects: 67,5 mg/m <sup>3</sup> .
worker, dermal, Long-term - systemic effects: 83 mg/kg bw/day.
worker, inhalative, Long-term - systemic effects: 67,5 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 5 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 40,5 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 50 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 40,5 mg/m <sup>3</sup> .
general population, inhalative, Acute - local effects: 60,7 mg/m <sup>3</sup> .

**PNEC**

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
sewage treatment plants (STP), 200 mg/l.
sediment (seaater), 0,44 mg/kg.
sediment (freshwater), 4,4 mg/kg.
seawater, 0,11 mg/l.
freshwater, 1,1 mg/l.

8.2 Exposure controls:

Additional advice on system design:

Eye protection:

Hand protection:

Skin protection:

Ensure adequate ventilation on workstation.

Safety glasses. (EN 166:2001).

0,4mm butyl rubber, > 120 min (EN 374)

The details concerned are recommendations. Please contact the glove supplier for further information.

Protective clothing.



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Other:	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale aerosols.
Respiratory protection:	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter P2. (DIN EN 143).
Thermal hazards:	None.
Delimitation and monitoring of the environmental exposition:	Protect the environment by applying appropriate control measures to prevent or limit emissions.

**SECTION 9: Physical and chemical properties**

9.1	Information on basic physical and chemical properties	
	General Information	
	Form:	Liquid.
	Colour:	Blue
	Odour:	Characteristic.
	Odour threshold:	Not applicable.
	pH:	11,0 - <11,5
	pH-value [1%]:	Not determined.
	Boiling point [°C]:	Not determined.
	Flash point [°C]:	Not applicable.
	Flammability (solid, gas) [°C]:	Not applicable.
	Auto-ignition temperature:	Not applicable.
	Lower explosion limit:	Not applicable.
	Upper explosion limit:	Not applicable.
	Oxidising properties:	No.
	Vapour pressure/gas pressure [kPa]:	Not determined.
	Density [g/ml]:	1,02 - 1,4 (20 °C / 68,0 °F)
	Bulk density [kg/m³]:	Not applicable.
	Solubility in water:	Completely miscible.
	Partition coefficient [n-octanol/water]:	Not determined.
	Viscosity:	Not applicable.
	Relative vapour density determined in air:	Not applicable.
	Evaporation speed:	Not applicable.
	Melting point [°C]:	Not determined.
	Autoignition temperature [°C]:	Not self-igniting.
	Decomposition temperature [°C]:	Not determined.
9.2	Other information:	None.

**SECTION 10: Stability and reactivity**

10.1	Reactivity	No dangerous reactions known if used as directed.
10.2	Chemical stability	The product is stable under standard conditions.
10.3	Possibility of hazardous reactions	Reactions with acids.
10.4	Conditions to avoid	See SECTION 7.2.
10.5	Incompatible materials	Acids
10.6	Hazardous decomposition products	No hazardous decomposition products known.



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**SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Acute toxicity:

Product
ATE-mix, inhalative, > 20 mg/L 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit: > 2000 mg/kg (IUCLID).
LD50, oral, Rat: > 2000 mg/kg (IUCLID).
LC50, inhalativ (vapour ), Rat: > 29 ppm (2 h).

Serious eye damage/irritation:	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Irritant Calculation method
Skin corrosion/irritation:	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Respiratory or skin sensitisation:	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Specific target organ toxicity (single exposure):	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Specific target organ toxicity (repeated exposure):	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Mutagenicity:	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Reproduction toxicity:	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Carcinogenicity:	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Aspiration hazard:	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.
General remarks:	None.



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**SECTION 12: Ecological information**

12.1 Toxicity

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LC50, (96h), Lepomis macrochirus: 1300 mg/l (IUCLID).
EC50, (96h), Scenedesmus subspicatus: > 100 mg/l (OECD 201).
EC50, (48h), Daphnia magna: > 100 mg/l (IUCLID).

- |  |  |
|--|--|
| 12.2 Persistence and degradability:      | Not determined.  |
| Behaviour in environment compartments:   | Not determined.  |
| Behaviour in sewage plant:               | Not determined.  |
| Biological degradability:                | Not determined.  |
| 12.3 Bioaccumulative potential:          | Accumulation in organisms is not expected.   |
| 12.4 Mobility in soil:                   | Spillages may penetrate the soil causing ground water contamination.                 |
| 12.5 Results of PBT and vPvB assessment: | Based on all available information not to be classified as PBT or vPvB respectively. |
| 12.6 Other adverse effects:              | None known.  |

**SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

- |                          |   |
|--------------------------|---|
| Product:                 | Coordinate disposal with the authorities if necessary.<br>Dispose of as hazardous waste.                          |
| Waste no. (recommended): | 200129*   |
| Contaminated packaging   | Uncontaminated packaging may be reused.<br>Packaging that cannot be cleaned should be disposed of as for product. |
| Waste no. (recommended): | 150110*   |

**SECTION 14: Transport information**

14.1 UN number

- |   |                 |
|---|-----------------|
| Transport by land according to ADR/RID:   | Not applicable. |
| Inland navigation (ADN):                  | Not applicable. |
| Marine transport in accordance with IMDG: | Not applicable. |
| Air transport in accordance with IATA:    | Not applicable. |

14.2 UN proper shipping name

- |   |                                     |
|---|-------------------------------------|
| Transport by land according to ADR/RID:   | NO DANGEROUS GOODS                  |
| Inland navigation (ADN):                  | NO DANGEROUS GOODS                  |
| Marine transport in accordance with IMDG: | NOT CLASSIFIED AS "DANGEROUS GOODS" |
| Air transport in accordance with IATA:    | NOT CLASSIFIED AS "DANGEROUS GOODS" |

14.3 Transport hazard class(es)

- |   |                 |
|---|-----------------|
| Transport by land according to ADR/RID:   | Not applicable. |
| Inland navigation (ADN):                  | Not applicable. |
| Marine transport in accordance with IMDG: | Not applicable. |
| Air transport in accordance with IATA:    | Not applicable. |

14.4 Packing group

- |   |                 |
|---|-----------------|
| Transport by land according to ADR/RID: | Not applicable. |
| Inland navigation (ADN):                | Not applicable. |



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- Marine transport in accordance with IMDG: Not applicable.
- Air transport in accordance with IATA: Not applicable.
- 14.5 Environmental hazards
  - Transport by land according to ADR/RID: No.
  - Inland navigation (ADN): No.
  - Marine transport in accordance with IMDG: No.
  - Air transport in accordance with IATA: No.
- 14.6 Special precautions for user: Relevant information under SECTION 6 to 8.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - EEC-REGULATIONS: 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
  - TRANSPORT-REGULATIONS: DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).
  - NATIONAL REGULATIONS (GB):: EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
  - Observe employment restrictions for people: Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
  - VOC (1999/13/CE) <1 %
- 15.2 Chemical safety assessment: Not applicable:

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

- 16.1 Hazard statements (SECTION 03):
  - H412 Harmful to aquatic life with long lasting effects.
  - H318 Causes serious eye damage.
  - H315 Causes skin irritation
  - H302 Harmful if swallowed.
  - H319 Causes serious eye irritation.
- 16.2 Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
  - ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - CLP: Classification, Labelling and Packaging
  - DMEL: Derived Minimum Effect Level
  - DNEL: Derived No-Effect Level (REACH)
  - EC50: Median effective concentration
  - ECB: = European Chemicals Bureau





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EEC:	European Economic Community
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
IATA:	International Air Transport Association
IBC-Code:	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50:	Inhibition concentration, 50%
IMDG:	International Maritime Code for Dangerous Goods
IUCLID:	International Uniform Chemical Information Database
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
MARPOL:	International Convention for the Prevention of Marine Pollution from Ships
PBT:	Persistent, Bioaccumulative and Toxic substance
PNEC:	Predicted No-Effect Concentration (REACH)
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA:	Threshold limit value – time-weighted average
TLV®STEL:	Threshold limit value – short-time exposure limit
VOC:	Volatile Organic Compounds
VPvB:	very Persistent and very Bioaccumulative.

- 16.3 Other information:
- |                          |  |
|--------------------------|--|
| Classification procedure | Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) |
| Modified position:       | None.  |