

EU – Safety data sheet

according to REACH-Regulation (EC) 1907/2006 amended by regulation (EC) 2020/878 (EU)



Date of revision: 05.12.2022
Version 3.0. Supersedes version: 2.0


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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: Cleaning agent
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 (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: 
- Signal word:** Warning
- Hazard statements:**
H319 Causes serious eye irritation.
- Precautionary statements:**
P260 Do not breathe spray.
P280 Wear eye protection / face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention.
- Cleaner, 648/2004/CE, contains:** < 5% polycarboxylates
< 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.

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SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures: 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, C10-13-alkyl derivs., sodium salts
	CAS: 68411-30-3, EINECS/ELINCS: 270-115-0, Reg-No.: 01-2119489428-22-XXXX
	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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take off contaminated clothing and wash before reuse.

After inhalation:

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

After skin contact:

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

After eye contact:

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.

After swallowing:

Seek medical advice immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed:

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

For safety reasons unsuitable extinguishing agents:

Full water jet.

5.2 Special hazards arising from the substance or mixture:

Risk of formation of toxic pyrolysis products.

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5.3 Advice for firefighters

Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

- | | |
|---|--|
| 7.1 Precautions for safe handling
Information about protection against explosions and fires: | 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. |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep away from frost.
Protect from heat/overheating. |
| 7.3 Specific end use(s) | See product use, Section 1.2 |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (EU)

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
Eight hours: 10 ppm, 67,5 mg/m ³
Short-term (15-minute): 15 ppm, 101,2 mg/m ³

DNEL

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
Industrial, dermal, Long-term - systemic effects, 119 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 7.6 mg/m ³
general population, oral, Long-term - systemic effects, 0.425 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 42.5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1.3 mg/m ³

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2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Industrial, dermal, Long-term - systemic effects, 6.25 mg/kg bw/day
Industrial, inhalative, Acute - local effects, 101.2 mg/m ³
Industrial, inhalative, Long-term - local effects, 67.5 mg/m ³

PNEC

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
freshwater, 0.268 mg/L
seawater, 0.027 mg/L
sewage treatment plants (STP), 3.43 mg/L
sediment (freshwater), 8.1 mg/kg sediment dw
sediment (seawater), 6.8 mg/kg sediment dw
soil, 35 mg/kg
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
oral (food), 56 mg/kg food
soil, 0.32 mg/kg soil dw
freshwater, 1.1 mg/l
seawater, 0.11 mg/l
sediment (freshwater), 4.4 mg/kg
sediment (seawater), 0.44 mg/kg

8.2 Exposure controls:

Additional advice on system design:

Ensure adequate ventilation on workstation.
Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

Eye protection:

Safety glasses. (EN 166:2001).

Hand protection:

0,4mm butyl rubber, > 120 min (EN 374)
The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection:

Protective clothing (EN 340).

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:

In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. 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

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Physical state:	liquid
Form:	liquid
Colour:	blue
Odour:	characteristic
Odour threshold:	not relevant
pH-value:	10.8 - 11.4
pH-value [1%]:	not determined
Boiling point [°C]:	not determined
Flash point [°C]:	not applicable
Flammability:	not applicable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Oxidising properties:	no
Vapour pressure/gas pressure [kPa]:	not determined
Density [g/cm³]:	1.0 - 1.04 (20 °C / 68,0 °F)
Relative density:	not determined
Bulk density [kg/m³]:	
Solubility in water:	completely miscible
Solubility other solvents:	not relevant
Partition coefficient [n-octanol/water]:	not determined
Kinematic viscosity:	not relevant
Relative vapour density:	not relevant
Evaporation speed:	not relevant
Melting point [°C]:	not determined
Auto-ignition temperature [°C]:	not self-igniting
Decomposition temperature [°C]:	not determined
Particle characteristics:	not applicable

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	Heating
10.5 Incompatible materials	Acids
10.6 Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Product
ATE-mix, oral, > 2000 mg/kg.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LD50, oral, Rat, 1080 mg/kg OECD 401
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, oral, mouse, 2410 - 5530 mg/kg bw

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Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LD50, dermal, Rat, > 2000 mg/kg OECD 402
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit, 2764 mg/kg bw

Acute inhalational toxicity

Product
ATE-mix, inhalation (vapour), > 20 mg/L 4h

Serious eye damage/irritation:

Irritant
Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available.
Calculation method

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
Eye, Causes serious eye damage.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Eye, irritant

Skin corrosion/irritation:

Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
dermal, irritant
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, non-irritating

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.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
dermal, non-sensitizing
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, non-sensitizing

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

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classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
NOAEL, dermal, Rat, 2500 mg/kg bw/day (subchronic), no adverse effect observed
NOAEL, oral, Rat, 85 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
NOAEL, oral, Rat, 250 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 94 mg/m ³ (subchronic), The effects observed are not sufficient for classification.

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.

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
in vivo, negativ
in vitro, negativ

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.

- Fertility

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
NOAEL, oral, Rat, 350 mg/kg bw/day (chronic), no adverse effect observed

- Development

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
NOAEL, oral, mouse, 300 mg/kg bw/day (chronic), no adverse effect observed

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

11.2 Information on other hazards

Endocrine disrupting properties:

Contains no ingredients with endocrine-disrupting properties.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, CAS: 68411-30-3
LC50, (96h), Lepomis macrochirus, > 1 - 10 mg/l (Lit.)
EC50, (48h), Daphnia magna, > 1 - 10 mg/l OECD 202 (Lit.)

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NOEC, (28d), Poecilia reticulata, 3.2 mg/L
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LC50, (96h), Lepomis macrochirus, 1300 mg/l (IUCLID)
EC50, (48h), Daphnia magna, > 100 mg/l (IUCLID)

12.2 Persistence and degradability:	
Behaviour in environment compartments:	Not determined.
Behaviour in sewage plant:	Not determined.
Biological degradability:	The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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 Endocrine disrupting properties:	Contains no ingredients with endocrine-disrupting properties.
12.7 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. Dispose of as hazardous waste.
Waste no. (recommended):	200129*
Contaminated packaging:	Uncontaminated packaging may be reused. 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.

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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.
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 Maritime transport in bulk according to IMO instruments:	Not applicable.
SECTION 15: Regulatory information	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
EEC-REGULATIONS:	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS:	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
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.

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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
ATE: acute toxicity estimate
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
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial Chemical Substances
EL50: Median effective loading
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
IVIS: In vitro irritation score
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LC0: lethal concentration, 0%
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic substance
PNEC: Predicted No-Effect Concentration (REACH)
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
STP: Sewage Treatment Plant
TLV®/TWA: Threshold limit value – time-weighted average
TLV®STEL: Threshold limit value – short-time exposure limit

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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.