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

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

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: Borsiastr. 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**

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

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

mixture:

2.2 Label elements



Signal word: Warning

Hazard statements:

Hazard pictograms:

H319 Causes serious eye irritation.

Precautionary statements:

Do not breathe spray. P260

Wear eye protection / face protection P280

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact P305+P351+P338

> lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention.

P337+P313

< 5% polycarboxylates 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.

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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.

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

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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

5.1 Personal precautions, protective Ensure adequate ventilation.

equipment and emergency procedures: 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/m³

Short-term (15-minute): 15 ppm, 101,2 mg/m³

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/m³

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/m³

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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/m³	
	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

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

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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

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

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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:

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

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

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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/m³ (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.)

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

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NOEC, (28d), Poecilia reticulate, 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.

Not applicable.

Waste no. (recommended): 150110*

SECTION 14:Transport information

14.1 UN number

Transport by land according to

ADR/RID:

Inland navigation (ADN): Not applicable.

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Not applicable.

Marine transport in accordance with IMDG:

Air transport in accordance with IATA:

Not applicable.

14.2 UN proper shipping name

Transport by land according to

NO DANGEROUS GOODS

ADR/RID:

Inland navigation (ADN):

NO DANGEROUS GOODS

Marine transport in accordance with

NOT CLASSIFIED AS "DANGEROUS GOODS"

IMDG:

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):

Marine transport in accordance with

Not applicable. Not applicable.

IMDC:

Air transport in accordance with IATA:

Not applicable.

14.4 Packing group

Transport by land according to

Not applicable.

ADR/RID:

Inland navigation (ADN):

Not applicable.

Marine transport in accordance with

Not applicable.

IMDG:

Air transport in accordance with IATA:

Not applicable.

14.5 Environmental hazards

Transport by land according to

ADR/RID:

No.

Inland navigation (ADN):

14.6 Special precautions for user:

No.

Marine transport in accordance with

No.

IMDG:

Air transport in accordance with IATA:

No.

14.7 Maritime transport in bulk according to

Not applicable.

IMO instruments:

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

Relevant information under Section 6 to 8.

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:

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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.



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