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Ultrasonic dental plaque cleaner

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

1.1 Product identifier

Tradename: Ultrasonic dental plaque 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: SILADENT Dr. Böhme & Schöps GmbH

Street / mailbox: Im Klei 26

Country code. / postal code / city: DE - 38644 Goslar Phone: +49 (0) 53 21 / 37 79 - 0 Fax: +49 (0) 53 21 / 38 96 32

E-mail / Website: info@siladent.de / www.siladent.de / www.siladent.de / SILADENT Dr. Böhme & Schöps GmbH

1.4 Emergency telephone number

SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or Skin Corr. 1B: H314 Causes severe skin burns and eye

mixture: damage.

Eye Dam. 1: H318 Causes serious eye damage. Met. Corr. 1: H290 May be corrosive to metals.

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Contains: Phosphoric acid

Hazard statements:

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Precautionary statements:

P260 Do not breathe spray.

P280 Wear protective gloves / protective clothing / 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.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER / doctor.
P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P501 Dispose of contents / container to in accordance with local / national regulation.

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



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2.3 Other hazards

Human health dangers: Contains no ingredients with endocrine-disrupting

properties.

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

3.1 Substances: not applicable

3.2 Mixtures: The product is a mixture.

Range [%]	Substance
30 - 40	Phosphoric acid
	CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6,
	Reg-No.: 01-2119485924-24-XXXX
	GHS/CLP: Met. Corr. 1: H290 - Skin Corr. 1B: H314
	SCL [%]: >=10 - <25: Eye Irrit. 2: H319, >=10 - <25: Skin Irrit. 2: H315, >= 25: Skin Corr.
	1B: H314

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: Remove the victim into fresh air and keep him calm.

In the event of symptoms seek medical treatment.

After skin contact: In case of contact with skin wash off immediately with soap

and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

After eye contact: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Consult a doctor immediately.

After swallowing: Consult a doctor 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:

Product is caustic.

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.



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5.2 Special hazards arising from the substance or mixture:

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters Use self-contained breathing apparatus. Wear full protective suit. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product. Use personal protective equipment (protective gloves,

safety glasses, protective clothing).

Do not discharge into the drains/surface 6.2 **Environmental precautions:**

waters/groundwater. Prevent spread over a wide area (e.g.

by containment or oil barriers).

Methods and material for containment 6.3

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.

Reference to other sections:

See Section 8 and 13.

SECTION 7: Handling and storage

Precautions for safe handling Information about protection against

explosions and fires:

Use only in well-ventilated areas. The normal safety precautions for handling chemicals must be observed. Do not eat, drink, smoke or take drugs at work. Use barrier skin cream. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. 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.

Do not store with alkalies. Keep container tightly closed.

Keep container in a well-ventilated place.

Keep away from frost.

Protect from heat/overheating.

Specific end use(s) 7.3 See product use, SECTION 1.2

SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

Phosphoric acid

CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6,

Reg-No.: 01-2119485924-24-XXXX

Eight hours: 1 mg/m³

Short-term (15-minute): 2 mg/m³



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DNEL

Substance

Phosphoric acid, CAS: 7664-38-2

Industrial, inhalative, Acute - local effects, 2 mg/m³

Industrial, inhalative, Long-term - local effects, 1 mg/m³

Industrial, inhalative, Long-term - systemic effects, 10.7 mg/m³

general population, oral, Long-term - systemic effects, 0.1 mg/kg bw/day general population, inhalative, Long-term - local effects, 0.36 mg/m³

general population, inhalative, Long-term - systemic effects, 4.57 mg/m³

PNEC

Substance

Phosphoric acid, CAS: 7664-38-2

There are no PNEC values established for the substance.

8.2 Exposure controls:

Additional advice on system design: Ensure adequate ventilation on workstation.

Eye protection: Tightly fitting goggles. ((EN 166:2001).

Hand protection: 0.4mm Butyl rubber, >480 min (EN 374-1/-2/-3).

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

Physical state: liquid Form: liquid Colour: red

Odour: characteristic
Odour threshold: not relevant
pH: 0.2 - 1

PH-value [1%] not determined
Boiling point [°C]: not determined
Flash point [°C]: not applicable
Flammability: not applicable
Lower explosion limit: not applicable



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Upper explosion limit:

Oxidising properties: no

Vapour pressure/gas pressure [kPa]: not determined

Density [g/cm³]: 1.19 - 1.22 (20 °C / 68,0 °F)

not applicable

Relative density:

Bulk density [kg/m³]:

Solubility in water:

not determined
not applicable
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 alkalies (lyes).

Reactions with light metals, with evolution of hydrogen.

10.4 Conditions to avoid: Heating

10.5 Incompatible materials: Alkalies

10.6 Hazardous decomposition products: No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product

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

Substance

Phosphoric acid, CAS: 7664-38-2 LD50, oral, Rat: 1530 mg/kg (Lit.).

Acute dermal toxicity

Product

ATE-mix, dermal, > 2000 mg/kg

Substance

Phosphoric acid, CAS: 7664-38-2 LD50, dermal, Rabbit, 2740 mg/kg

Acute inhalational toxicity

Product

ATE-mix, inhalativ (mist), > 5 mg/L 4h



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Serious eye damage/irritation: Product is caustic.

Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product

are not available.

Calculation method

Substance

Phosphoric acid, CAS: 7664-38-2

Eye, corrosive

Skin corrosion/irritation: Product is caustic.

Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product

are not available.
Calculation method

Substance

Phosphoric acid, CAS: 7664-38-2

dermal, corrosive

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.

Substance

Phosphoric acid, CAS: 7664-38-2

LOAEL, oral, Rat, 155 mg/kg bw/day (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.

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: No information available.

- Development

Substance

Phosphoric acid, CAS: 7664-38-2

NOAEL, oral, mouse, 370 mg/kg bw/day, OECD 422, no adverse effect observed



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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.

Substance

Phosphoric acid, CAS: 7664-38-2

negative

Aspiration hazard:Does not contain a relevant substance that meets the

classification criteria. Based on the available information,

the classification criteria are not fulfilled.

None.

11.2 Information on other hazards

General remarks:

Endocrine disrupting properties: Contains no ingredients with endocrine-disrupting

properties.

SECTION 12: Ecological information

12.1 Toxicity

Substance

Phosphoric acid, CAS: 7664-38-2

EC50, (72h), Desmodesmus subspicatus, > 100 mg/L (OECD 201)

EC50, (48h), Daphnia magna, > 100 mg/L (OECD 202)

NOEC, (72h), Desmodesmus subspicatus, 100 mg/L (OECD 201)

NOEC, (48h), Daphnia magna, 56 mg/L (OECD 202)

12.2 Persistence and degradability: Not determined.

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.



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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*

060104*

Contaminated packaging Uncontaminated packaging may be reused.

Packaging that cannot be cleaned should be disposed of

as for product.

Waste no. (recommended): 150110* packaging containing residues of or contaminated

by hazardous substances

SECTION 14:Transport information

14.1 UN number

Transport by land according to ADR/RID: 1805
Inland navigation (ADN): 1805
Marine transport in accordance with 1805

IMDG:

Air transport in accordance with IATA: 1805

14.2 UN proper shipping name

Transport by land according to ADR/RID: Phosphoric acid, solution

- Classification Code

- Label

C1



- ADR LQ 5

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN): Phosphoric acid, solution

- Classification Code C1

- Label



Marine transport in accordance with

IMDG:

- EMS F-A, S-B

- Label



- IMDG LQ



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Air transport in accordance with IATA:

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID: 8
Inland navigation (ADN): 8
Marine transport in accordance with 8

IMDG:

Air transport in accordance with IATA: 8

14.4 Packing group

Transport by land according to ADR/RID: ||| Inland navigation (ADN): ||| Marine transport in accordance with |||

IMDG:

Air transport in accordance with IATA:

14.5 Environmental hazards

Transport by land according to ADR/RID: No Inland navigation (ADN): No Marine transport in accordance with No IMDG:

Air transport in accordance with IATA:

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

No

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):

Observe employment restrictions for

people:

Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for

young people.

VOC (2010/75/CE): 0 %

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):

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent LC0: lethal concentration, 0%

LOAEL: lowest-observed-adverse-effect level

LUSO: Median lethal loading LQ: Limited Quantities

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

VOC: Volatile Organic Compounds

VPvB: very Persistent and very Bioaccumulative.

16.3 Other information:



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Classification procedure:

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)

Modified position: SECTION 11 been added: Contains no ingredients with endocrine-

disrupting properties.