Safety data sheet

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according to 1907/2006/EC, Article 31 Version number 1 Revision: 22.02.2017 Printing date 22.02.2017 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: TopDent Red Action · Article number: according to Catalog · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU20 Health services • Environmental release category ERC2 Formulation into mixture · Application of the substance / the mixture Dental material · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Kentzler-Kaschner Dental GmbH Mühlgraben 36 D-73479 Ellwangen Tel: +49/7961/90730 Fax: +49/7961/52031 E-Mail: info@kkd-topdent.de · Further information obtainable from: During normal business hours Monday-Thursday 08:30 - 12:30 and 13:00 - 16:30 CET Friday 08:30 - 12:30 and 13:00 - 15:00 CET • 1.4 Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. _ _ _ _ _ _ _ _ · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS05 · Signal word Danger · Hazard-determining components of labelling: **Phosphorsäure** 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate · Hazard statements H314 Causes severe skin burns and eye damage. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. (Contd. on page 2)

rade name: Top	Dent Red Action	
		(Contd. of page 1)
P260	Do not breathe dusts or mists.	
P303+P361-	+P353 IF ON SKIN (or hair): Take off immediately all conto water/shower.	aminated clothing. Rinse skin with
P305+P351-	+P338 IF IN EYES: Rinse cautiously with water for several present and easy to do. Continue rinsing.	minutes. Remove contact lenses, if
P310	Immediately call a POISON CENTER/doctor.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with loc regulations.	cal/regional/national/international

· PBT: Not applicable.

KASCHN Denta

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Dental material

· Dangerous components	5:	
	Phosphorsäure	25-35%
	Skin Corr. 1B, H314	
CAS: 5949-29-1	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate	3-6%
EINECS: 201-069-1	🤣 Eye Dam. 1, H318	
EC number: 931-964-9	Laurylamin, ethoxyliert	0.2-0.4%
	🚯 Eye Dam. 1, H318; 🚯 Aquatic Acute 1, H400; 🚯 Acute Tox. 4, H302	
· Additional information	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Take affected persons out of danger area and lay down.

Do not leave affected persons unattended.

Take affected persons out into the fresh air.

• After inhalation: Take affected persons into fresh air and keep quiet.

• After skin contact: If skin irritation continues, consult a doctor.

• After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: Inform doctor. Do not give milk or fatty oils.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Carbon dioxide (CO2)

· 5.3 Advice for firefighters

· Protective equipment: No special measures required.

(Contd. on page 3)

GB

Printing date 22.02.2017

Version number 1

Revision: 22.02.2017

(Contd. of page 2)

Trade name: TopDent Red Action

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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 disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- *Information about fire and explosion protection:* Do not spray onto a naked flame or any incandescent material.
- Do noi spray onio a nakea jiane or any incanaesceni materiai.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- *Information about storage in one common storage facility:* Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

Phosphorsäure

WEL Short-term value: 2 mg/m³ Long-term value: 1 mg/m³

• Additional information: The lists valid during the making were used as basis.

- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection:
- DGUV 112-190 Breathing apparatus
- Filter type A2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)

GB



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^{· 8.2} Exposure controls

Revision: 22.02.2017

Printing date 22.02.2017

· Odour threshold:

· pH-value at 20 °C:

· Flash point:

· Change in condition

· Flammability (solid, gas):

• Auto-ignition temperature:

· Ignition temperature:

Melting point/freezing point:

Decomposition temperature:

Initial boiling point and boiling range: 100 °C

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Version number 1

Trade name: TopDent Red Action

	(Contd. of page 3)	
• Protection of hands:		
	impermeable and resistant to the product/ the substance/ the preparation.	
	erial on consideration of the penetration times, rates of diffusion and the	
degradation		
• Material of gloves		
Fluorocarbon rubber (Viton)		
Butyl rubber, BR		
Recommended material thick		
Butylkautschuk: 0,50 mm +/-		
Fluorkautschuk: 0,75 mm +/		
and varies from manufactur	gloves does not only depend on the material, but also on further marks of quality er to manufacturer. As the product is a preparation of several substances, the ial can not be calculated in advance and has therefore to be checked prior to the	
· Penetration time of glove m	iterial	
Basis: DGUV 212-007		
Permeation (Fluorkautschuk	+ Level 6 (> 480 min)	
Permeation (Butykautschuk).		
	imes according to EN 374 part III are not performed under practical conditions.	
Therefore a maximum wearing	g time, which corresponds to 50% of the penetration time, is recommended. e has to be found out by the manufacturer of the protective gloves and has to be	
	loves made of the following materials are suitable:	
Fluorocarbon rubber (Viton)	loves made of the following materials are saturdie.	
Butyl rubber, BR		
• Not suitable are gloves made	of the following materials:	
Rubber gloves	of the following materials.	
Natural rubber, NR		
• Eye protection: Goggles reco	mmandad during ratilling	
· Eye protection: Goggies reco		
SECTION 9: Physical d	nd chemical properties	
	vsical and chemical properties	
• General Information		
· Appearance:		
Form:	Fluid	
Colour:	Red	
· Odour:	Perfume-like	

Not determined.

Not applicable.

Not applicable.

Not determined.

Product is not selfigniting.

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(Contd. on page 5)

Printing date 22.02.2017

Version number 1

Revision: 22.02.2017

Trade name: TopDent Red Action

		(Contd. of page 4
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure at 20 °C:	23 hPa	
· Density at 20 °C:	1.25 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
· 9.2 Other information		

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- \cdot 10.4 Conditions to avoid Open fire, hot surfaces, high temperatures
- · 10.5 Incompatible materials: oxidants, acids, bases
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- \cdot Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Phosphorsäure

Oral LD50 1530 mg/kg (Ratte) 2740 mg/kg (Kaninchen)

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- \cdot Serious eye damage/irritation
- Causes serious eye damage.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

• Subacute to chronic toxicity: 97489-15-1 Sulfonsäure, C14-17, sec-alkan, Natriumsalz Oral, NOAEL (28 d): 4000 mg/kg/d (Ratte)

(Contd. on page 6)

GB

Version number 1

Revision: 22.02.2017

Trade name: TopDent Red Action

Printing date 22.02.2017

(Contd. of page 5)

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

• Carcinogenicity Based on available data, the classification criteria are not met.

• *Reproductive toxicity Based on available data, the classification criteria are not met.*

- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

7664-38-2 Phosphorsäure

LC50 Fischtoxizität: 3-3,5 mg/l/96 h (Fisch)

• Aquatic toxicity: No further relevant information available.

- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

• **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

· European waste catalogue

06 01 99 wastes not otherwise specified

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

• *Recommended cleansing agents:* Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA

UN3264

 \cdot 14.2 UN proper shipping name

 $\cdot ADR$

1805 PHOSPHORIC ACID, SOLUTION mixture

(Contd. on page 7)

- GB



rinting date 22.02.2017	Version number 1	Revision: 22.02.20
rade name: TopDent Red Action		
		(Contd. of page
· IMDG · IATA	(Phosphoric acid-solution CORROSIVE LIQUID,	ACIDIC, INORGANIC, N.O.
	(Phosphoric acid - solution	on)
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class	8 Corrosive substances.	
· Label	8	
· 14.4 Packing group		
· ADR, IMDG, IATA	III	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Warning: Corrosive subs	tances.
· EMS Number:	F-A,S-B	
· Segregation groups	Acids	
· Stowage Category	A array of a clinic	
· Stowage Code	SW2 Clear of living quar	ters.
• 14.7 Transport in bulk according to		
Marpol and the IBC Code	Not applicable.	
• Transport/Additional information:		
· ADR		
\cdot Limited quantities (LQ)	5L	
\cdot Excepted quantities (EQ)	Code: El	· · · · · · · · · · · ·
	1 11	er inner packaging: 30 ml
		er outer packaging: 1000 ml
· Transport category	3 (F)	
• Tunnel restriction code	<i>(E)</i>	
·IMDG	5.7	
\cdot Limited quantities (LQ)	5 L	
\cdot Excepted quantities (EQ)	Code: El	• 1 • 20 1
		er inner packaging: 30 ml
	Maximum net quantity pe	er outer packaging: 1000 ml
· UN "Model Regulation":	UN 1805 PHOSPHORIC III	CACID, SOLUTION MIXTURE, o

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- \cdot Named dangerous substances ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 8) GB

KENTZLER KASCHNER **DENTAL**

Version number 1

Revision: 22.02.2017

Trade name: TopDent Red Action

Printing date 22.02.2017

(Contd. of page 7)

GR

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life.

• Department issuing SDS: LOGAR Günther Hasel e.K. Baden-Airpark, Airport Boulevard B 210 D-77836 Rheinmünster Tel: +49(0)7229-1868-163 Fax: +49(0)7229-1868-165

· Contact: info@logar.de · 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) IMDG: International Maritime Code for Dangerous Goods 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

