Version number 1 Revision: 09.03.2017 Printing date 09.03.2017 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Kondisil Pastenhärter · 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 GHS02 flame Flam. Liq. 3 H226 Flammable liquid and vapour. GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS07 Acute Tox. 4 H332 Harmful if inhaled. Eye Irrit. 2 H319 Causes serious eye irritation. Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2) GR

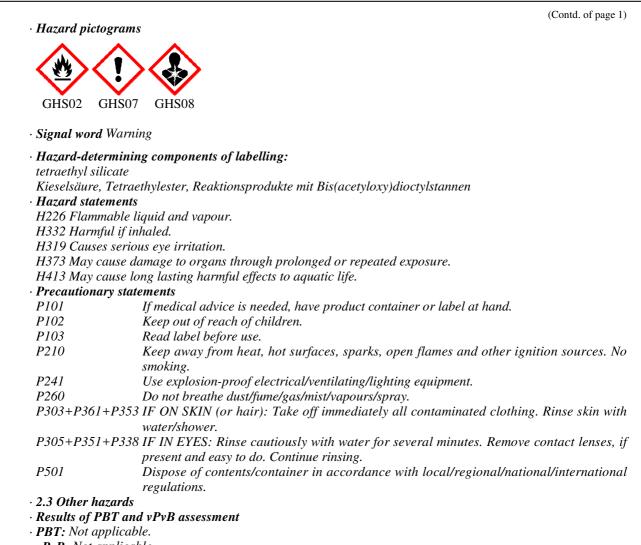


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• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Dental material

· Dangerous components:

Dangerous components.		
CAS: 78-10-4	tetraethyl silicate	18-19%
EINECS: 201-083-8	🛞 Flam. Liq. 3, H226; 🚯 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT	
	SE 3, H335	
CAS: 93925-43-0	Kieselsäure, Tetraethylester, Reaktionsprodukte mit Bis(acetyloxy)	9-10%
EC number: 300-346-0	dioctylstannen	
	STOT RE 2, H373; Aquatic Chronic 4, H413	
· Additional information	: For the wording of the listed hazard phrases refer to section 16.	

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SECTION 4: First aid measures

 \cdot 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.
- \cdot 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.
- · 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: Do not allow to enter sewers/ surface or ground water.
- \cdot 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.

- · 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: Store away from foodstuffs.
- Further information about storage conditions: None.
- Storage class: Storage group: 3A

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• 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:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

- · 8.2 Exposure controls
- · 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.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Recommended material thickness:

Butylkautschuk: 0,50 mm +/- 0,10 mm

Fluorkautschuk: 0,75 mm +/- 0,10 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

Basis: DGUV 212-007

Permeation (Fluorkautschuk): + Level 6 (> 240 min)

Permeation (Butykautschuk): + Level 6 (> 480 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- For the permanent contact gloves made of the following materials are suitable:
- Fluorocarbon rubber (Viton)

Butyl rubber, BR

· Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:

Fluid

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Colour:	Red	
· Odour:	Recognisable	
• Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	: 100 °C	
· Flash point:	34 °C	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	> 370 °C	
· Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive. Howe vapour mixtures are possible.	ever, formation of explosive air
· Explosion limits:		
Lower:	1.3 Vol %	
Upper:	23.0 Vol %	
· Vapour pressure at 20 °C:	1.7 hPa	
· Density at 20 °C:	1.02 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
\cdot Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
· 9.2 Other information	No further relevant information a	wailable.

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.

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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Harmful if inhaled.

· LD/LC50 values relevant for classification:

78-10-4 tetraethyl silicate

Oral LD50 6270 mg/kg (Ratte)

Dermal LD50 5878 mg/kg (Kaninchen)

· Primary irritant effect:

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- \cdot Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · 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 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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.

\cdot European waste catalogue

07 07 99 wastes not otherwise specified

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· Uncleaned packaging:

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• *Recommendation:* Disposal must be made according to official regulations.

SECTION 14: Transport informa			
14.1 UN-Number ADR, IMDG, IATA	UN1292		
14.2 UN proper shipping name ADR IMDG, IATA	1292 TETRAETHYL SILICATE TETRAETHYL SILICATE		
14.3 Transport hazard class(es)			
ADR, IMDG			
Label	3		
Class	3 Flammable liquids.		
Label	3		
14.4 Packing group ADR, IMDG, IATA	Not applicable III		
14.5 Environmental hazards:	Not applicable.		
14.6 Special precautions for user EMS Number: Stowage Category	Not applicable. F-E,S-D A		
14.7 Transport in bulk according to Ani	nex II of		
Marpol and the IBC Code	Not applicable.		
Transport/Additional information:			
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml		
Transport category Tunnel restriction code	3 (D/E)		
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 L Code: E 1		



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· UN "Model Regulation":

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- · Seveso category P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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 H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H413 May cause long lasting harmful effects 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 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

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