KASCHNI **Denta**

according to 1907/2006/EC, Article 31 Version number 1 Revision: 20.02.2017 Printing date 20.02.2017 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Taub Die-Spacer · 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. 2 H225 Highly flammable liquid and vapour. GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness. _ _ _ _ _ _ _ _ · 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 GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: butanone methyl methacrylate (Contd. on page 2)

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Hazard statements	
H225 Highly flamn	nable liquid and vapour.
H319 Causes serio	us eye irritation.
H317 May cause ai	n allergic skin reaction.
•	rowsiness or dizziness.
Precautionary state	ements
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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	<i>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</i>
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards	
Results of PBT and	d vPvB assessment

- · PBT: Not applicable.
- **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Dental material

· Dangerous components:			
CAS: 78-93-3	butanone	50-75%	
EINECS: 201-159-0	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336		
CAS: 108-65-5	2-Methoxy-2methylethylacetat	1-10%	
EINECS: 203-603-9	🚸 Flam. Liq. 3, H226		
CAS: 25551-13-7	Benzene-trimethyl	1-10%	
	Flam. Liq. 2, H225; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315		
CAS: 95-63-6	1,2,4-trimethylbenzene	1-10%	
EINECS: 202-436-9	Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		
CAS: 80-62-6	methyl methacrylate	1-10%	
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3 H335	,	
· Additional informat			
For the wording of the	he listed hazard phrases refer to section 16.		

REACH Reg. Nr. (78-93-3): 01-2119457290-43-XXXX REACH Reg. Nr. (80-62-2): 01-2119457298-28-xxxx

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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.
- \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.
- · 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: VCI: 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.

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

78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

95-63-6 1,2,4-trimethylbenzene

WEL Long-term value: 125 mg/m³, 25 ppm ILV

80-62-6 methyl methacrylate

WEL Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

· Ingredients with biological limit values:

78-93-3 butanone

BMGV 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

• 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
- Butyl rubber, BR

Fluorocarbon rubber (Viton)

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 (> 480 min)

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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

· Not suitable are gloves made of the following materials: Plastic gloves

• Eye protection: Goggles recommended during refilling

·	ical properties
9.1 Information on basic physical and c	chemical properties
General Information	
Appearance: Form:	Fluid
Form: Colour:	Fiuta Various colours
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	-86 °C
Initial boiling point and boiling range	2: 80 °C
Flash point:	-4 °C (c.c.)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	516 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
Explosion limits:	
Lower:	1 Vol %
Upper:	12 Vol %
Vapour pressure at 20 °C:	70 mm Hg
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
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.

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· Solvent content:

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Organic solvents: • 9.2 Other information 51.0 % *No further relevant information available.*

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

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

· LD/LC50 values relevant for classification:

78-93-3 butanone

Oral LD50 3300 mg/kg (Ratte)

Dermal LD50 5000 mg/kg (Kaninchen)

· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

- Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · 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
- May cause drowsiness or dizziness.
- · 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

- · 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.
- \cdot 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.

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· 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

07 07 99 wastes not otherwise specified

· Uncleaned packaging:

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

14.1 JIN No		
14.1 UN-Number ADR, IMDG, IATA	UN1993	
14.2 UN proper shipping name ADR IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. FLAMMABLE LIQUID, N.O.S.	
14.3 Transport hazard class(es)		
ADR		
Label	3	
IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group ADR, IMDG, IATA	II	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
EMS Number:	<i>F-E</i> , <u><i>Š-E</i></u>	
14.7 Transport in bulk according to Ann		
Marpol and the IBC Code	Not applicable.	



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Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
· Excepted quantities ($\widetilde{E}Q$)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	(D/E)
· IMDG	
Limited quantities (LQ)	5 L
\cdot Excepted quantities (\widetilde{EQ})	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	Void

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
- \cdot 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
- H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
- 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

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· 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. 2: Flammable liquids – Category 2
Flam. Lig. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
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