Safety data sheet

KASCHNI **Denta**

according to 1907/2006/EC, Article 31 Version number 2 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: Tru-Fit Silber · 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

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Printing date 20.02.2017 (Contd. of page 1) · Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. · 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. 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 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	75.0%		
	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336			
	aluminium powder (pyrophoric)	20.0%		
<i>EINECS: 231-072-3</i>	🚸 Pyr. Sol. 1, H250; Water-react. 2, H261			
CAS: 80-62-6	methyl methacrylate	1.0%		
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335			
• 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.

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\cdot 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:* Stockages VDS 3103 Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage in one common storage jucity. Store
- Storage class: Storage group: 3A
- 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:

78-93-3 butanone

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

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	methyl methacrylate
	nort-term value: 416 mg/m ³ , 100 ppm
	ong-term value: 208 mg/m³, 50 ppm
Ingredie	ents with biological limit values:
78-93-3	butanone
BMGV	70 μmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one
Addition	al information: The lists valid during the making were used as basis.
	osure controls
	l protective equipment:
	protective and hygienic measures: Wash hands before breaks and at the end of work.
	tory protection:
	12-190 Breathing apparatus
Filter ty	
	of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposu
	contained respiratory protective device.
	on of hands:
	ve material has to be impermeable and resistant to the product/ the substance/ the preparation.
	on of the glove material on consideration of the penetration times, rates of diffusion and the
degrada	
	l of gloves
	arbon rubber (Viton)
•	bber, BR
	nended material thickness:
	utschuk: 0,50 mm +/- 0,10 mm
	utschuk: 0,75 mm +/- 0,10 mm
	ction of the suitable gloves does not only depend on the material, but also on further marks of qual
	ies from manufacturer to manufacturer. As the product is a preparation of several substances, t
	ce of the glove material can not be calculated in advance and has therefore to be checked prior to t
applicat	
	tion time of glove material
	OGUV 212-007
	tion (Fluorkautschuk) + Level 6 (> 480 min)
	tion (Butykautschuk): + Level 6 (> 480 min)
	ct break through time has to be found out by the manufacturer of the protective gloves and has to
observe	
	ermined penetration times according to EN 374 part III are not performed under practical condition $\frac{1}{2}$
	re a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
	permanent contact gloves made of the following materials are suitable:
	arbon rubber (Viton)
	bber, BR
	able are gloves made of the following materials:
PVC gld	
	ne gloves
Eye pro	tection: Goggles recommended during refilling

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• 9.1 Information on basic physical and c	chemical properties
· General Information	
· Appearance: Form:	Fluid
Colour:	Silver-coloured
· Odour:	Recognisable
· Odour threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. 2: 80 °C
· Flash point:	-4 °C (c.c.)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	400 °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:	1.8 Vol %
Upper:	11.5 Vol %
· Vapour pressure at 20 °C:	105 hPa
· 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.
· Solvent content:	
Organic solvents:	75.0 %
VOC (EC)	75.00 %
Solids content:	24.0 %
• 9.2 Other information	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.
- · 10.4 Conditions to avoid Open fire, hot surfaces, high temperatures

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· 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.

· 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.

· 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

18 01 06* chemicals consisting of or containing hazardous substances

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· Uncleaned packaging:

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

14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. solution
IMDG	FLAMMABLE LIQUID, N.O.S. (Butanone-Methacryla solution)
IATA	Flammable liquid, n.o.s. (Butanone-Methylmethacrylat
	solution)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	Ш
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	17
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
Excepted quantities (EQ)	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)	IL Calue F2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. SOLUTION, 3, 1

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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. Created on 18.04.2016 EG-SD-Nr.240

· Relevant phrases

H225 Highly flammable liquid and vapour.
H250 Catches fire spontaneously if exposed to air.
H261 In contact with water releases flammable gases.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

• Department issuing SDS:

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• 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) VOC: Volatile Organic Compounds (USA, EU) 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 Pyr. Sol. 1: Pyrophoric solids - Category 1 Water-react. 2: Substances and mixtures which in contact with water emit flammable gases - Category 2 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 • * Data compared to the previous version altered.