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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 03.08.2022

Version number 4 (replaces version 3)

Revision: 03.08.2022

1.1 Product identifier	 }r	
	gnum ceramic bond I	
	ed uses of the substance or mixture	and uses advised against
No further relevant info	formation available.	-
• Application of the	e substance / the mixture Auxiliary fo	or manufacture of dental prothesis
Manufacturer/Sup Kulzer GmbH		
	2, 63450 Hanau (Germany)	Tel.: +49 (0)800 437252
	ment: E-Mail: msds@kulzer-dental.cor phone number: Emergency CONTAC	m T (24-Hour-Number): +49 (0)6132-84463
SECTION 2. Haza	ards identification	
	the substance or mixture	
	cording to Regulation (EC) No 1272/	2008
Flam. Liq. 2 H225	5 Highly flammable liquid and vapour.	
Eye Irrit. 2 H319	Causes serious eye irritation.	
STOT SE 3 H336	May cause drowsiness or dizziness.	
	>	
GHS02 GHS	\$07	
• Signal word Date	langer	
propan-2-ol	nining components of labelling:	
· Hazard statem		
H319 Causes s	ammable liquid and vapour. serious eye irritation.	
	se drowsiness or dizziness.	
	r statements	
• Precautionary	av trom neat not curtaces charks on	en flames and other ignition sources. N
Precautionary P210 Keep awa smoking.		
 Precautionary P210 Keep awa smoking. P261 Avoid bread 	eathing mist/vapours/spray.	
• Precautionary P210 Keep awa smoking. P261 Avoid bre P280 Wear prot	eathing mist/vapours/spray. otective gloves / eye protection.	
• Precautionary P210 Keep awa smoking. P261 Avoid bre P280 Wear prot • Additional inform	eathing mist/vapours/spray. otective gloves / eye protection. nation:	eaction.
Precautionary P210 Keep awa smoking. P261 Avoid bre P280 Wear prot Additional inform Contains methyl m 2.3 Other hazards -	eathing mist/vapours/spray. otective gloves / eye protection. nation: nethacrylate. May produce an allergic re	eaction.
Precautionary P210 Keep awa smoking. P261 Avoid bre P280 Wear prot Additional inform Contains methyl m 2.3 Other hazards -	eathing mist/vapours/spray. otective gloves / eye protection. nation: nethacrylate. May produce an allergic ro nd vPvB assessment	eaction.



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3.2 Mixtures [·] Description: -		
 Dangerous components: 		
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	75-90%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	<i>≥</i> 5-<10%
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Lig. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<i>≥</i> 0.1-<1%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• After inhalation Supply fresh air; consult doctor in case of symptoms.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. • After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. • 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
 - · Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Avoid contact with eyes and skin.

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- (Contd. of page 2) • 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars. · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- Ensure adequate ventilation.
- 6.4 Reference to other sections

No dangerous materials are released. See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Keep containers tightly sealed. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities Storage
 - Requirements to be met by storerooms and containers: Store in cool location.
 - · Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions:
- Store in cool, dry conditions in well sealed containers. 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

		lical values that require	monitoring at the workplac	e.
	ropan-2-ol			
		Short-term value: 1250 r Long-term value: 999 mg		
67-64-1 a	cetone			
WEL (Gre	at Britain)	Short-term value: 3620 r		
		Long-term value: 1210 n	ng/m³, 500 ppm	
IOELV (Eu	uropean Union)	Long-term value: 1210 n	ng/m³, 500 ppm	
80-62-6 m	ethyl methacr	ylate		
WEL (Gre	at Britain)	Short-term value: 416 mg/m³, 100 ppm		
, , ,		Long-term value: 208 mg/m³, 50 ppm		
IOELV (European Union)		Short-term value: 100 pp Long-term value: 50 ppn		
· DN	ELs			
67-63-0 p	ropan-2-ol			
Oral	general popula	tion, long term, systemic	26 mg/Kg (not defined)	
Dermal	worker industri	al, long term, systemic	888 mg/Kg/d (not defined)	
		tion, long term, systemic	319 mg/Kg/d (not defined)	
Inhalative worker industri			500 mg/m3 (not defined)	
		tion, long term, systemic	• • • •	
67-64-1 a	•		. . , , , , , , , , , , , , , , , , , ,	
Oral		tion, long term, systemic	62 ma/Ka (not defined)	

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			(Contd. of p	bage
Dermal	worker industrial, long te	-	186 mg/Kg/d (not defined)	
	general population, long t			
Inhalative	worker industrial, long te	-	1,210 mg/m3 (not defined)	
	worker industrial, long te	rm, local	2,420 mg/m3 (not defined)	
			200 mg/m3 (not defined)	
80-62-6 methyl methacrylate				
Oral	general population, long	-		
Dermal	worker industrial, long te	•	13.67 mg/Kg/d (not defined)	
	general population, long	-		
Inhalative	Inhalative worker industrial, acute, i		416 mg/m3 (not defined)	
	worker industrial, long te	•	348.4 mg/m3 (not defined)	
	worker industrial, long te		208 mg/m3 (not defined)	
	general population, acute		208 mg/m3 (not defined)	
	general population, long	term, systemic	74.3 mg/m3 (not defined)	
· PNE				
67-63-0 рі	ropan-2-ol			
freshwater		140.9 mg/l (no	,	
marine wa	ter	140.9 mg/l (no		
-	eatment plant	2,251 mg/l (not defined)		
sediment,	dry weight, freshwater	552 mg/Kg (not defined)		
sediment,	dry weight, marine water			
soil, dry w	əight	28 mg/Kg (not defined)		
67-64-1 ac				
freshwater		10.6 mg/l (not		
marine wa		1.06 mg/l (rabbit)		
-	eatment plant	19.5 mg/l (not defined)		
sediment,	dry weight, freshwater	30.4 mg/Kg (not defined)		
sediment,	dry weight, marine water			
soil, dry w	əight	0.112 mg/Kg (I	not defined)	
80-62-6 m	ethyl methacrylate			
freshwater		0.94 mg/l (not	,	
marine wa	ter	0.094 mg/l (no	,	
sewage treatment plant		10 mg/l (not defined)		
sediment, dry weight, freshwater		10.2 mg/Kg (n	,	
	sediment, dry weight, marine water		0.102 mg/Kg (not defined)	
sediment,				
sediment, soil, dry w	eight	1.48 mg/Kg (no	;	
sediment, soil, dry w Add 8.2 Expos Approp Individ Ger Avo Kee Inst	eight litional information: The sure controls priate engineering contr	ists that were rols No further s, such as per ienic measure veverages and f ind impregnated	valid during the compilation were used as ba data; see item 7. sonal protective equipment s ood. d garments.	sis.



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Avoid contact with the eyes and skin. • **Breathing equipment:**

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Hand protection

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

Check protective gloves prior to each use for their proper condition.

recommended Material of gloves

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

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

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Butyl rubber, BR Nitrile rubber, NBR

• Eye/face protection Tightly sealed safety glasses.

· Body protection: Light weight protective clothing

9.1 Information on basic physical and chemica	l properties
 General Information 	
 Physical state 	Fluid
· Colour:	Colourless
· Smell:	Alcohol-like
· Odour threshold:	Not determined.
 Melting point/freezing point: 	Not determined
Boiling point or initial boiling point and	
boiling range	55 °C
· Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	2.0 Vol %
· Upper:	12.0 Vol %
Flash point:	5 °C
Ignition temperature:	>400 °C
 Decomposition temperature: 	Not determined.
SADT	
∙рН	Mixture is non-soluble (in water).
· Viscosity:	
Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
Water:	Fully miscible
 Partition coefficient n-octanol/water (log 	
value)	Not determined.



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	(Contd. of page
· Steam pressure at 20 °C:	48 hPa
Density and/or relative density	
· Density at 20 °C	0.800 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information No	o further relevant information available.
· Appearance:	
Form:	Fluid
 Important information on protection of 	F
health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation explosive air/vapour mixtures is possible.
· Solvent content:	
· VOC EU	769.7 g/l
· Change in condition	
· Evaporation rate	Not determined.
classes Explosives	Void
· Flammable gases	Void
· Aerosols	Void
• Oxidising gases	Void
Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
• Self-reactive substances and mixtures	Void
 Pyrophoric liquids 	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
 Substances and mixtures, which emit 	
flammable gases in contact with water	Void
· Oxidising lĭquids	Void
Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
 Desensitised explosives 	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available. 10.2 Chemical stability

 - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None

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	• Acute toxicity Based on available data, the classification criteria are not met.		
 LD/LC50 values that are relevant for classification: 			
67-63-0 propan-2-ol			
Oral	LD50	5,840 mg/kg (rat) (OECD 401)	
Dermal	LD50	>12,800 mg/kg (rabbit) (OECD 402)	
Inhalative	LC0	≥10,000 ppm /6h (rat) (OECD 403)	
67-64-1 a	cetone		
Oral	LD50	5,800 mg/kg (rat)	
Dermal	LD50	>15,800 mg/kg (rabbit)	
Inhalative	LC50/4 h	76 mg/l (rat)	
80-62-6 m	ethyl met	hacrylate	
Oral	LD50	~7,900 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)	
Inhalative LC50/4 h 29.8 mg/l (rat)			
Seriou Cause Respir Germ Carcin Repro STOT- May ca STOT-	s eye dan s serious e ratory or s cell mutag ogenicity ductive to single exp suse drows repeated of tion hazai	iness or dizziness. Exposure Based on available data, the classification criteria are not met. In Based on available data, the classification criteria are not met.	
Aspira 11.2 Infor	mation on		

· 12.1 Toxicit	у			
· Aquatic	toxicity:			
67-63-0 pro	pan-2-ol			
LC50/96h	9,640 mg/l (fish) (OECD 203)			
LC50/24h	>10,000 mg/L (daphnia) (OECD 202)			
67-64-1 ace	tone			
EC50/48h	8,800 mg/l (daphnia)			
LC50/96h	C50/96h 6,210 mg/l (fish) (OECD 203)			
80-62-6 met	hyl methacrylate			
EC50/21d	49 mg/L (daphnia) (OECD 211)			
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)			
NOEC / 21d	37 mg/l (daphnia) (OECD 211)			
ErC50 / 72 ł	>110 mg/l (algae) (OECD 201)			



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(Contd. of page 7) NOEC / 72h 110 mg/l (algae) (OECD 201) NOEC / 48h 48 mg/l (daphnia) (EPA OTS 797.1300) EbC50 / 72h >110 mg/l (algae) (OECD 201) NOEC/ 35d 9.4 mg/L (fish) (OECD 210) LC50/ 35d 33.7 mg/L (fish) (OECD 210) · 12.2 Persistence and degradability 67-63-0 propan-2-ol Biodegradation 53 % /5d (not defined) (EU C.5) 67-64-1 acetone Biodegradation 90.9 % /28d (not defined) (OECD 301D) 80-62-6 methyl methacrylate Biodegradation 94 % /14d (not defined) (OECD 301C) · 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment PBT: Not applicable. · vPvB: Not applicable. 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11. 12.7 Other adverse effects Additional ecological information: General notes: Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

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

Disposal must be made according to official regulations.

- · Uncleaned packagings:
 - Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

SECTION 14: Transport information		
14.1 UN number or ID number ADR, IMDG, IATA	UN1993	
• 14.2 UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (ISOPROPANOL (ISOPROPYL	
· IMDG, IATA	ALCOHOL), ACÈTONE) FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE)	
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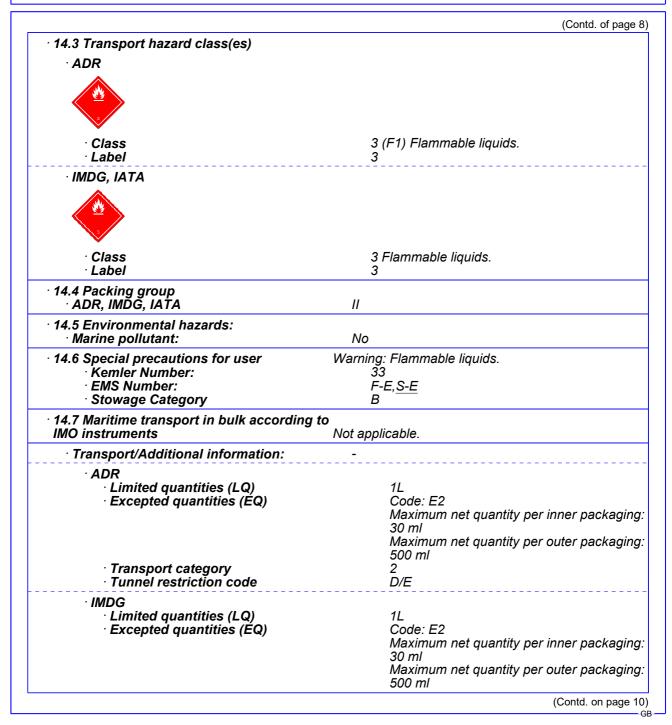
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• UN "Model Regulation":

(Contd. of page 9) UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE), 3, II

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

Directive 2012/18/EU

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

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

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.

Relevant phrases

- Highly flammable liquid and vapour. H225
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- Causes serious eye irritation. H319
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature ADR: Accord relatif au transport international 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) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) 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 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.

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