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

Printing date 01.08.2022

Version number 3

Revision: 01.08.2022

1.1 Product id	entifier	
· Trade name	e: Palaferm insulation	
	dentified uses of the substance of the s	or mixture and uses advised against
· Application	of the substance / the mixture .	Auxiliary for manufacture of dental prothesis
 Manufactur Kulzer Gmb 		heet Tel.: +49 (0)800 4372
· Informing c · 1.4 Emergency	lepartment: E-Mail: msds@kulzer y telephone number: Emergency	r-dental.com CONTACT (24-Hour-Number): +49 (0)6132-844
SECTION 2:	Hazards identification	
	ion of the substance or mixture on according to Regulation (EC) No 1272/2008
Flam. Liq. 2	H225 Highly flammable liquid and	d vapour.
Eye Irrit. 2	H319 Causes serious eye irritatio	on.
	pictograms	
GHS02	GHS07	
· Hazard s	vord Danger statements	
	ghly flammable liquid and vapour. Juses serious eye irritation.	
· Precauti	ionary statements	
P210 P280	Keep away from heat, h sources. No smoking. Wear protective gloves.	hot surfaces, sparks, open flames and other ign / eve protection
P305+P3	351+P338 IF IN EYES: Rinse ca contact lenses, if preser	utiously with water for several minutes. Rem nt and easy to do. Continue rinsing.
	nrds - PBT and vPvB assessment t applicable.	
	ot applicable.	

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Trade name: Palaferm insulation

 Dangerous components: 		
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 2119457610-43-xxxx	ethanol Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50%	≥50-≤75
CAS: 10035-04-8 EC number: 600-075-5 Reg.nr.: 01-2119494219-28- XXXX	calcium chloride, dihydrate Eye Irrit. 2, H319	≥10-≤25
CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	≥0-<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.
- After eye contact
- Rinse opened eye for several minutes under running water. Then 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.
- **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.
 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars. Dilute with much water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

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· 6.4 Reference to other sections

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

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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

8.1	Control	parameters
-----	---------	------------

64-17-5 et			monitoring at the workplace:	
WEL (Gre		Long torm value: 1020 m	ng/m ³ 1000 ppm	
	,	Long-term value: 1920 n	ig/m², 1000 ppm	
78-93-3 b			/ 3 000	
WEL (Gre	at Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV		
IOELV (Eu	uropean Union)	Short-term value: 900 m	g/m³, 300 ppm	
	. ,	Long-term value: 600 mg	g/m³, 200 ppm	
· DNI	ELs			
64-17-5 et	thanol			
Oral	general popula	tion, long term, systemic	87 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic		343 mg/Kg/d (not defined)	
	general population, long term, systemic		206 mg/Kg/d (not defined)	
Inhalative	worker industri	al, long term, systemic	950 mg/m3 (not defined)	
	general population, long term, systemic		114 mg/m3 (not defined)	
10035-04-	8 calcium chlo	oride, dihydrate		
Inhalative	worker industri	al, acute, local	10 mg/m3 (not defined)	
	worker industri	al, long term, local	5 mg/m3 (not defined)	
	general popula	tion, acute, local	5 mg/m3 (not defined)	
	general population, long term, local		2.5 mg/m3 (not defined)	
78-93-3 b		-		
Oral	general population, long term, systemic		31 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic		1,161 mg/Kg/d (not defined)	
		tion, long term, systemic	412 mg/Kg/d (not defined)	

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Inhalative general population, long term, systemic general population, long term, systemic PNECs 600 mg/m3 (not defined) 64-17-5 ethanol 106 mg/l1 (not defined) freshwater 0.79 mg/l (not defined) sewage treatment plant 580 mg/l (not defined) sediment, dry weight, freshwater 3.6 mg/Kg (not defined) sediment, dry weight, marine water 2.9 mg/Kg (not defined) soil, dry weight 0.63 mg/Kg (not defined) soil, dry weight 0.61 mathbachachas sorg				(C	<u>Contd. of page 3)</u>
• PNECs 64-17-5 ethanol freshwater 0.96 mg/l (not defined) marine water 0.79 mg/l (not defined) seedige treatment plant 580 mg/l (not defined) sediment, dry weight, freshwater 2.9 mg/Kg (not defined) sediment, dry weight 0.63 mg/Kg (not defined) soil, dry weight 0.63 mg/Kg (not defined) · Ingredients with biological limit values: 78-93-3 butanone BMGV (Great Britain) 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one • Additional information: The lists that were valid during the compilation were used as basis. • Azpropriate engineering controls No further data; see item 7. • Individual protection measures, such as personal protective equipment · General protective and hygienic measures Wash hands during breaks and at the end of the work. · Breathing equipment: Not necessary if room is well-ventilated. • Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove sprior 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 or further marks of quality and varies from manufa		· · ·		• ()	
64-17-5 ethanol freshwater 0.96 mg/l (not defined) marine water 0.79 mg/l (not defined) sewage treatment plant 580 mg/l (not defined) sediment, dry weight, freshwater 3.6 mg/Kg (not defined) soil, dry weight 0.63 mg/Kg (not defined) soil, dry weight 0.63 mg/Kg (not defined) • Ingredients with biological limit values: 78-93-3 butanone BMGV (Great Britain) 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one • Additional information: The lists that were valid during the compilation were used as basis. • Az Exposure controls • Appropriate engineering controls No further data; see item 7. • Individual protection measures, such as personal protective equipment • General protective and hygienic measures Wash hands during breaks and at the end of the work. • Breathing equipment: Not necessary if room is well-ventilated. • Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the gloves prior to each use for their proper condition. recommended • Material of gloves • Material of gloves • The selection of the suitable gloves does not only depend on the material, but also or further marks of q	general pop	oulation, long	term, systemic	106 mg/m3 (not defined)	
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Butyl rubber, BR Nitrile rubber, NBR	Wash hands du Breathing equi Hand protectio The glove mate preparation. Selection of the the degradation Check protectiv recommended Material of g The selectio further mark preparation calculated in Penetration The exact b gloves and h For the peri materials an Butyl rubber	pring breaks a ipment: Not r print print has to be glove materia gloves prior gloves print of the suit of several s of quality and of several s of quality and preak trough a preak trough a pre	nd at the end of becessary if room e impermeable al on considerat to each use for able gloves do nd varies from r substances, th has therefore t e material time has to be erved.	the work. In is well-ventilated. and resistant to the product/ the su on of the penetration times, rates of their proper condition. The roper condition. The source of the glove material of the glove material	diffusion and but also on product is a can not be he protective

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Trade name: Palaferm insulation

9.1 Information on basic physical and chemi	ical 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 an	
boiling range	78 °C
· Flammability	Not applicable.
 Lower and upper explosion limit 	0 5 1/-10/
Lower:	3.5 Vol %
· Upper:	15.0 Vol %
· Flash point:	14 °C
Ignition temperature:	400 °C
 Decomposition temperature: 	Not determined.
SADT	
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (le	
value)	Not determined.
 Steam pressure at 20 °C: 	57 hPa
Density and/or relative density	
· Density at 20 °C	0.930 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
	lo further relevant information available.
· Appearance:	
· Form:	Liquid
 Important information on protection of 	of
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	679.0 g/l
	073.0 yr
Change in condition Evaporation rate	Not determined.
-	
 Information with regard to physical hazar 	a
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	



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· 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 liquids	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

SECTIO	SECTION 11: Toxicological information		
11.1 Infor Acute	mation on toxicity Ba	hazard classes as defined in Regulation (EC) No 1272/2008 ased on available data, the classification criteria are not met.	
· LD/	LC50 valu	es that are relevant for classification:	
64-17-5 et	thanol		
Oral	LD50	10,470 mg/kg (rat) (OECD 401)	
Inhalative	LC50/4 h	124.7 mg/l (rat) (OECD 403)	
10035-04-	8 calcium	chloride, dihydrate	
Oral	LD50	2,301 mg/kg (rat) (OECD 401)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
78-93-3 bi	78-93-3 butanone		
Oral	LD50	2,193 mg/kg (rat) (OECD 423)	

Dermal LD50 8,100 mg/kg (rabbit) (OECD 402)

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

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.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

12.1 Toxicity	
· Aquatic to	
64-17-5 ethai	nol
LC50/96h	14,200 mg/l (fish)
	275 mg/l (algae) (OECD 201)
EC50/96h	129,000 mg/L (fish)
LC50/48h	5,012 mg/L (daphnia)
ErC10/72h	11.5 mg/L (algae) (OECD 201)
NOEC 5d	250 mg/L (fish) (OECD 212)
NOEC 10d	9.6 mg/L (daphnia)
10035-04-8 с	alcium chloride, dihydrate
EC50/48h	144 mg/l (daphnia)
LC50/96h	10.65 mg/l (fish)
IC 50/ 72h	3.13 mg/l (algae)
78-93-3 buta	
	308 mg/l (daphnia) (OECD 202)
	2,993 mg/l (fish) (OECD 203)
	1,220 mg/l (algae) (OECD 201)
	1,170 mg/l (fish) (OECD 203)
NOEC / 48h	68 mg/l (daphnia) (OECD 202)
ErC10/72h	1,020 mg/L (algae) (OECD 201)
12.2 Persiste	nce and degradability
64-17-5 ethai	nol
Biodegradatio	on 84 % /20d (not defined)
78-93-3 buta	
•	on 98 % /28d (not defined) (OECD 301D)
12.4 Mobility 12.5 Results PBT: Not vPvB: Not 12.6 Endocri For informatic 12.7 Other ac Additiona Genera	
טווטנ	anow ununuted product of large quantities of it to reach ground water, water boules

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SECTION 13: Disposal consider	
· Recommendation	
Must not be disposed of together with	household garbage. Do not allow product to reach sewa
system.	
Disposal must be made according to o	ifficial regulations.
Waste disposal key number: 55503	
· Uncleaned packagings:	
 Recommendation: Disposal must be made according a 	to official regulations
Non contaminated packagings can	be used for recycling.
· Recommended cleaning agent: V	<i>Vater, if necessary with cleaning agent.</i>
SECTION 14: Transport information	tion
· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1170
[.] 14.2 UN proper shipping name	
ADR	1170 ETHANOL (ETHYL ALCOHOL) solution
· IMDG	ETHANOL (ETHYL ALCOHOL) solution ETHANOL solution
·IATA	ETHANOL Solution
 14.3 Transport hazard class(es) 	
ADR	
3	
\mathbf{v}	
Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
3	
	O Elemente la l'antida
· Class · Label	3 Flammable liquids. 3
	5
 14.4 Packing group ADR, IMDG, IATA 	11
· 14.5 Environmental hazards:	
· Marine pollutant:	No
[.] 14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	33
· EMS Number:	3-06
· Stowage Category	A



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IMO instruments	Not applicable.
 Transport/Additional information: 	-
· ADR	
 Limited quantities (LQ) 	1L
· Excepted quantities (ÉQ)	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)	1L
Excepted quantities (ÉQ)	Code: E2
	Maximum net quantity per inner packaging 30 ml
	Maximum net quantity per outer packaging 500 ml
· UN "Model Regulation":	UN 1170 ETHANOL (ETHYL ALCOHOL SOLUTION, 3, II

SECTION 15: Regulatory information

· 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

H225 Highly flammable liquid and vapour.

- H319 Causes serious eye irritation.
- May cause drowsiness or dizziness. H336

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)

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DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered. (Contd. of page 9)

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