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

Printing date 03.08.2022

Version number 3

Revision: 03.08.2022

	ntion of the substance/mixture and of the company
• 1.1 Product identifier	
• Trade name: Palaclea	
• 1.2 Relevant identified uses No further relevant information	of the substance or mixture and uses advised against n available.
 Application of the substa 	ance / the mixture Cleaning material/ Detergent
• 1.3 Details of the supplier of • Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 F	
	-Mail: msds@kulzer-dental.com u mber: Emergency CONTACT (24-Hour-Number): +49 (0)6132-8446.
SECTION 2: Hazards ide	entification
2.1 Classification of the subs	
•	to Regulation (EC) No 1272/2008
	lammable liquid and vapour.
Eye Irrit. 2 H319 Causes	-
STOT SE 3 H336 May cau	use drowsiness or dizziness.
Hazard pictograms	
· Signal word Danger	
•	omponents of labelling:
 Hazard statements H225 Highly flammable H319 Causes serious ey H336 May cause drowsi 	ye irritation. The second s
	e nts p away from heat, hot surfaces, sparks, open flames and other ignitic ces. No smoking.
P261 Avoid	id breathing mist/vapours/spray. ar protective gloves / eye protection. N EYES: Rinse cautiously with water for several minutes. Remov
P305+P351+P338 IF IN	
P305+P351+P338 IF IN conta P337+P313 If eye	act lenses, if present and easy to do. Continue rinsing. e irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN conta P337+P313 If eye · Additional information:	act lenses, if present and easy to do. Continue rinsing. e irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN conta P337+P313 If eye • Additional information: EUH066 Repeated exposul • 2.3 Other hazards -	act lenses, if present and easy to do. Continue rinsing. e irritation persists: Get medical advice/attention. Ire may cause skin dryness or cracking.
P305+P351+P338 IF IN conta P337+P313 If eye • Additional information: EUH066 Repeated exposur	act lenses, if present and easy to do. Continue rinsing. e irritation persists: Get medical advice/attention. Ire may cause skin dryness or cracking.



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· vPvB: Not applicable.

3.2 Mixtures • Description: -		
 Dangerous components: 		
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxx	ethyl acetate x	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066
· Additional information For	the wording of the liste	d hazard phrases refer to section 16.
SECTION 4: First aid mea		
4.1 Description of first aid mea		
After eye contact Rinse opened eye for severa After swallowing Rinse out mouth and then dri In case of persistent symptoms 4.2 Most important symptoms	ink plenty of water. ns consult doctor.	-
No further relevant information a 4.3 Indication of any immediat No further relevant information a	available. te medical attention a	-
4.3 Indication of any immediat	available. te medical attention a available.	-

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

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Keep away from ignition sources Use breathing protection against the effects of fumes/dust/aerosol. Avoid contact with eyes and skin.

 6.2 Environmental precautions: Inform respective authorities in case product reaches water or sewage system. 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). Dispose of contaminated material as waste according to item 13.

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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
 Avoid contact with eyes and skin.
 Wear protective equipment. Keep unprotected persons away.
 Keep containers tightly sealed.
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Information about protection against explosions and fires:
 Fumes can combine with air to form an explosive mixture.
 Use only in explosion-proof area.
 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:

- Provide solvent resistant, sealed floor. Store in cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- *Further information about storage conditions:* Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

• 7.3 Specific end use(s) No further relevant information available.

8.1 Control parameters		
 Components with cri 	tical values that require monitoring at the workpla	ce:
141-78-6 ethyl acetate		
OEL (Ireland)	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm IOELV	
IOELV (European Union)	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm	



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· DN	<u>El o</u>		(Contd. of page 3	
	ethyl acetate			
Oral	general population, long	term systemic	1.5 mg/Kg (not defined)	
Dermal	worker industrial, long ter	-	63 mg/Kg/d (not defined)	
Dennai				
Inholotika		· •	37 mg/Kg/d (not defined)	
Innalative	worker industrial, acute,	-	1,468 mg/m3 (not defined)	
	worker industrial, acute, local		1,468 mg/m3 (not defined)	
			734 mg/m3 (not defined)	
	worker industrial, long ter		734 mg/m3 (not defined)	
			734 mg/m3 (not defined)	
			734 mg/m3 (not defined)	
		-	367 mg/m3 (not defined)	
	general population, long	term, local	367 mg/m3 (not defined)	
· PNI	ECs			
141-78-6	ethyl acetate			
freshwate	r	0.24 mg/l (not	defined)	
marine wa	nter	0.024 mg/l (no	t defined)	
sewage tr	eatment plant	650 mg/l (not d	lefined)	
•	dry weight, freshwater	1.15 mg/Kg (no		
	dry weight, marine water			
soil, dry w			0.148 mg/Kg (not defined)	
Avo Kee Inst Wa Avo	neral protective and hyg id contact with the eyes. p away from foodstuffs, b antly remove any soiled a sh hands during breaks an id contact with the eyes a	everages and f nd impregnated nd at the end of	ood. I garments.	
Use Filte	athing equipment: breathing protection only er A/P2.			
prot • Har	tective mask (filter A). Ind protection		If exposition to vapours is possible, use breathir and resistant to the product/ the substance/ th	
prej Sele	paration. ection of the glove materia		tion of the penetration times, rates of diffusion ar	
Che reco	degradation eck protective gloves prior ommended	to each use foi	r their proper condition.	
1	further marks of quality ar preparation of several s	able gloves do nd varies from i substances, th	\geq 0.5 mm es not only depend on the material, but also of manufacturer to manufacturer. As the product is the resistance of the glove material can not b to be checked prior to the application. (Contd. on page	



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- 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: Solvent resistant protective clothing
- Environmental exposure controls
- Do not allow to enter drainage system, surface or ground water.
- Do not allow to enter the ground/soil.

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties **General Information** Physical state Fluid Colourless · Colour: Fruit-like · Smell: Odour threshold: Not determined. • Melting point/freezing point: Not determined · Boiling point or initial boiling point and 77 °C (141-78-6 ethyl acetate) boiling range · Flammability Not applicable. · Lower and upper explosion limit Lower: 2.1 Vol % 11.5 Vol % · Upper: -4 °C (141-78-6 ethyl acetate) Flash point: 460 °È Ignition temperature: Decomposition temperature: Not determined. SADT Mixture is non-soluble (in water). pН . Viscosity: Kinematic viscosity Not determined. 0.44 mPas dynamic at 20 °C: Solubility Water at 20 °C: 61 g/l · Partition coefficient n-octanol/water (log 0.6 log POW value) · Steam pressure at 20 °C: 102 hPa · Density and/or relative density Density at 20 °C 0.901 g/cm3 Relative density Not determined. · Vapour density Not determined. · 9.2 Other information No further relevant information available. Appearance: Form: Fluid · Important information on protection of health and environment, and on safety. Self-inflammability: Product is not selfigniting. Product is not explosive. However, formation of Explosive properties: explosive air/vapour mixtures is possible. (Contd. on page 6)



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Change in condition • Evaporation rate	Not determined.
-	Not determined.
Information with regard to physical hazard	
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	Vola
flammable gases in contact with water	Void
· Oxidising liquids	Void
	Void
· Oxidising solids	
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 No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid Heat, flames and sparks.
- 10.5 Incompatible materials: Strong oxidizers
- 10.6 Hazardous decomposition products:
- Ethanoic acid

In case of fire the following can be released:

Carbon monoxide and carbon dioxide

· Additional information: -

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

141-78-6 ethyl acetate

Dermal LD50 >20,000 mg/kg (rabbit)

- 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.

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· 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.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION	12: Ecological information
· 12.1 Toxicity	
· Aquatic to	
141-78-6 ethy	
	230 mg/l (fish)
	2.4 mg/l (daphnia) (OECD 211)
	>100 mg/l (algae) (OECD 201)
• 12.2 Persiste Easily biodeg	nce and degradability radable
141-78-6 ethy	/l acetate
Biodegradatic	on 69 % /20d (not defined)
· 12.3 Bioaccu	mulative potential
141-78-6 ethy	/l acetate
Bloconcentra	tion factor (BCF) 30 (not defined)
12.5 Results PBT: Not vPvB: Not 12.6 Endocri For informatic 12.7 Other ac Additiona Genera Do not	[•] applicable. ne disrupting properties on on endocrine disrupting properties see section 11.
SECTION	13: Disposal considerations
Recomme	
Must not b system.	be disposed of together with household garbage. Do not allow product to reach sewage
	waste catalogue
18 01 06* ch	emicals consisting of or containing hazardous substances

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

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14.1 UN number or ID number ADR, IMDG, IATA	UN1173
14.2 UN proper shipping name · ADR · IMDG, IATA	1173 ETHYL ACETATE solution ETHYL ACETATE solution
14.3 Transport hazard class(es)	
ADR	
· Class	2 (E1) Elammable liquide
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
14.4 Packing group · ADR, IMDG, IATA	11
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B
14.7 Maritime transport in bulk accordin IMO instruments	g to Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 500 ml
 Transport category Tunnel restriction code 	2 D/E
• IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging 30 ml
	Maximum net quantity per outer packaging (Contd. on page



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• UN "Model Regulation":

UN 1173 ETHYL ACETATE SOLUTION, 3, II

500 ml

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 • REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

no information available

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

no information available

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 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.
- H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

- Date of previous version: 03.08.2022
- · Version number of previous version: 2
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

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 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) DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (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 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.