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

Printing date 01.06.2015 Revision: 01.06.2015

SECTION 1: Identification of the substance/mixture and of the company undertaking

- · 1.1 Product identifier
 - · Trade name: Palaclean
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Cleaning material/ Detergent
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

· Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number:

Emergency CÓNTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
 - · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

• Classification according to Directive 67/548/EEC or Directive 1999/45/EC void

Xi; Irritant

R36: Irritating to eyes.

F: Highly flammable

R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:
 The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

 Has a narcotizing effect.

· Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- · 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: ethyl acetate
- · Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection. P280

P243 Take precautionary measures against static discharge.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep container tightly closed.

P403+P233

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 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 characterization: Mixtures
 - · Description: -

 Dangerous components:

CAS: 141-78-6	ethyl acetate	95 - 100%
EINECS: 205-500-4	Xi Ř36; F R11	
	R66-67	
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	

· Additional information For the wording of the listed risk 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 instruct to lie down.

Instantly remove any clothing soiled by the product.

After inhalation

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

· 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. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help. A person vomiting while lying on their back should be turned onto their side.

· 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

Fire-extinguishing powder

Carbon dioxide

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Alcohol-resistant foam

For safety reasons unsuitable extinguishing agents Water with a full water jet.

· 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Carbon monoxide (ČO)

Carbon dioxide (CO2)

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

• 5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Additional information -

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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.

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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 systems: No further data; see item 7.
- · 8.1 Control parameters
 - · Components with critical values that require monitoring at the workplace:

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm Long-term value: 200 ppm

Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment:

Use breathing protection only when aerosol or mist is formed.

Filter A/P2.

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

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

Recommended thickness of the material: ≥ 0.5 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.

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 in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable: Butyl rubber, BR
- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR

Natural rubber, NR

- · Eye protection: Tightly sealed safety glasses.
- · Body protection: Solvent resistant protective clothing
- Limitation and supervision of exposure into the environment

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

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9.1 Information on basic physical and	d chemical properties
General Information Appearance: Form: Colour: Smell: Odour threshold:	Fluid Colourless Fruit-like Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined 77 °C
· Flash point:	-4 °C
· Ignition temperature:	460 ℃
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation o explosive air/vapour mixtures is possible.
· Critical values for explosion: · Lower: · Upper:	2.1 Vol % 11.5 Vol %
· Steam pressure at 20 °C:	102 hPa
Density at 20 °C Relative density Vapour density Evaporation rate	0.901 g/cm³ Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water at 20 °C:	61 g/l
· Partition coefficient (n-octanol/wa	nter): 0.6 log POW
Viscosity: dynamic at 20 °C: 9.2 Other information	0.44 mPas No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 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: -

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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
 - · Acute toxicity:
 - · LD/LC50 values that are relevant for classification:

141-78-6 ethyl acetate

Oral LD50 5600 mg/kg (rat) Dermal LD50 18000 mg/kg (rabbit)

- · Primary irritant effect:
 - · on the skin: No irritant effect.
 - · on the eye: Irritant effect.
- · Sensitization: No sensitizing effect known.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - · Aquatic toxicity:

141-78-6 ethyl acetate

EC50/48h | 3300 mg/l (algae)

717 mg/l (daphnia) (DIN 38412)

LC50/96h 230 mg/l (fish)

- · 12.2 Persistence and degradability Easily biodegradable
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
 - · Additional ecological information:
 - · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies 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 of together with household garbage. Do not allow product to reach sewage system.

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

SECTION 14: Transport information

· 14.1 UN-Number

· **ADR, IMDG, IATA** UN1173

· 14.2 UN proper shipping name

· ADR 1173 ETHYL ACETATE, solution ETHYL ACETATE, solution

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· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

· Label

· 14.4 Packing group · ADR, IMDG, IATA

· ADR, IMDG, IATA

• 14.5 Environmental hazards:
• Marine pollutant:

No

• 14.6 Special precautions for user Warning: Flammable liquids.

· Kemler Number: 33 · EMS Number: F-E,S-D

• 14.7 Transport in bulk according to Annex II
of MARPOL73/78 and the IBC Code
Not applicable.

· Transport/Additional information:

· ADR

Transport categoryTunnel restriction code

· UN "Model Regulation": UN1173, ETHYL ACETATE, solution, 3, II

SECTION 15: Regulatory information

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

No further relevant information available.

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.

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

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R67 Vapours may cause drowsiness and dizziness.

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 Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning ADR: Accord europeen sur le transport des marchandises dangereuses par Rothe International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Spatial Chemical Substances

CAS: 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
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

* Data compared to the previous version altered.