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· Trade name: Hera SW	<u>/E 2000</u>	
• <b>1.2 Relevant identified uses</b> No further relevant information	s of the substance or mixture and in available.	uses advised against
<ul> <li>Application of the substance</li> </ul>	ance / the mixture Auxiliary for mai	nufacture of dental prothesis
• 1.3 Details of the supplier of • Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450		Tel.: +49 (0)800 4372
Informing department: E	-Mail: msds@kulzer-dental.com	-Hour-Number): +49 (0)6132-84463
- <b>3</b> - <b>3</b> - <b>3</b>		
SECTION 2: Hazards id	lentification	
•	ostance or mixture to Regulation (EC) No 1272/2008 flammable liquid and vapour.	
• 2.2 Label elements • Labelling according to R The product is classified al • Hazard pictograms GHS02	Regulation (EC) No 1272/2008 and labelled according to the CLP re	gulation.
P233 Keep conta P370+P378 In case of t		C C

3.2 Chemical chara · Description: -

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<ul> <li>Dangerous components:</li> </ul>		
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 2119457610-43-xxxx	ethanol Flam. Liq. 2, H225	> 90%
CAS: 67-64-1 EINECS: 200-662-2	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	0-5%
Additional information Formation	or the wording of the listed hazard phrases refer to section 16.	

### **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 fire with 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

In case of fire the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
Danger of toxic fluorine based pyrolysis products
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.
 6.2 Environmental precautions:

Dilute with much water.

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). Do not flush with water or aqueous cleansing agents

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### · 6.4 Reference to other sections

No dangerous materials are released. 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 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**

• 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:

#### 64-17-5 ethanol

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

#### 67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

### · DNELs

· DNLLS		
64-17-5 ei	thanol	
Oral	ge.pop., l.te, syst.	87 mg/Kg (nd)
Dermal	worker profess., l.te., syst.	343 mg/Kg/d (nd)
	ge.pop., acu., local	950 mg/Kg/d (nd)
	ge.pop., l.te, syst.	206 mg/Kg/d (nd)
Inhalative	worker profess., acute, local	1900 mg/m3 (nd)
	worker profess., l.te., syst.	1900 mg/m3 (nd)
	ge.pop., acu., local	950 mg/m3 (nd)
	ge.pop., l.te, syst.	114 mg/m3 (nd)
67-64-1 acetone		
Oral	ge.pop., l.te, syst.	62 mg/Kg (nd)
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		ofess., acute, syst.	2420 mg/Kg/d (nd)	
и	vorker pro	ofess., l.te., syst.	186 mg/Kg/d (nd)	
g	e.pop., I.i	te, syst.	62 mg/Kg/d (nd)	
Inhalative w	vorker pro	ofess., l.te., syst.	1210 mg/m3 (nd)	
g	e.pop., I.i	te, syst.	200 mg/m3 (nd)	
· PN	VECs			
64-17-5 etha	anol			
freshwater		0.96 mg/l (nd)		
marine wate	er	0.79 mg/l (nd)		
STP		580 mg/l (nd)		
sedim., dw, i	fre.wat.	3.6 mg/Kg (nd)		
soil,dw		0.63 mg/Kg (nd)		
67-64-1 ace	tone			
freshwater		10.6 mg/l (nd)		
marine wate	er	1.06 mg/l (rabbit)		
STP		19.5 mg/l (nd)		
sedim., dw, fre.wat. 30.4 mg/Kg (nd)		30.4 mg/Kg (nd)		
sedim., dw, l	mar.wat.	3.04 mg/Kg (nd)		
soil,dw		0.112 mg/Kg (nd)		
· Addit	tional inf	ormation: The list	s that were valid during t	the compilation were used as basis.
8.2 Exposu	ro contre	hle		

### 8.2 Exposure controls

- 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.

### Protection of hands:

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

recommended

Material of gloves
The selection of the suitable

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

Value for the permeation: Level  $\leq 2$ 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 protection: Protective goggles are recommended.

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· Body protection: Light weight protective clothing

<ul> <li>9.1 Information on basic physical and · General Information · Appearance:</li> </ul>	chemical properties
· Form:	Fluid
· Colour: · Smell:	Colourless Alcohol-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	Not determined 78 °C
· Flash point:	16 °C
Inflammability (solid, gaseous)	Not applicable.
· Ignition temperature:	425 °C
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosiv air/vapour mixtures is possible.
<ul> <li>Critical values for explosion:</li> <li>Lower:</li> <li>Upper:</li> </ul>	3.5 Vol % 15.0 Vol %
· Steam pressure at 20 °C:	57 hPa
<ul> <li>Density at 20 °C</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	0.79 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with</li> <li>Water:</li> </ul>	Fully miscible
· Partition coefficient (n-octanol/wat	er): Not determined.
<ul> <li>Viscosity:</li> <li>dynamic:</li> <li>kinematic:</li> <li>9.2 Other information</li> </ul>	Not determined. Not determined. No further relevant information available.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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### · 10.2 Chemical stability

· Conditions to be avoided: No decomposition if used and stored according to specifications.

- **10.3 Possibility of hazardous reactions** No decomposition if used according to specifications.
- 10.4 Conditions to avoid Heat, flames and sparks.
- 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** In case of fire the following can be released:

Carbon monooxide

Carbon dioxide Danger of toxic pyrolysis products • Additional information: -

## **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 that are relevant for classification:

#### 64-17-5 ethanol

 Oral
 LD50
 6200 mg/kg (rat)

 Inhalative
 LC50/4 h
 95.6 mg/l (rat)

### 67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	

· Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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 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.

## SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

### 67-64-1 acetone

EC50/48h 6100 mg/l (daphnia)

LC50/96h 5540 mg/l (fish)

· 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.

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- · 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.

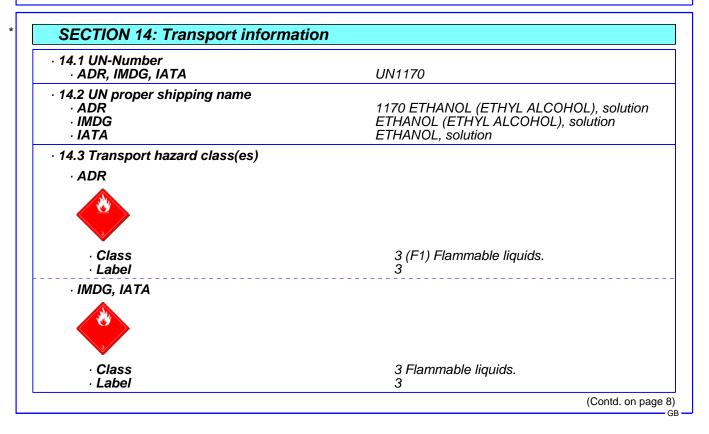
### **SECTION 13: Disposal considerations**

### · 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.
  - · Recommended cleaning agent: Water, if necessary with cleaning agent.





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<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	11
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>• 14.6 Special precautions for user</li> <li>• Kemler Number:</li> <li>• EMS Number:</li> </ul>	Warning: Flammable liquids. 33 F-E, <u>S-D</u>
<ul> <li>14.7 Transport in bulk according to Anne Marpol and the IBC Code</li> </ul>	ex II of Not applicable.
<ul> <li>Transport/Additional information:</li> </ul>	-
• ADR • Limited quantities (LQ) • Transport category • Tunnel restriction code	1 L 2 D/E
· UN "Model Regulation":	UN1170, ETHANOL (ETHYL ALCOHOL) solution, 3, II

### SECTION 15: Regulatory information

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

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**

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.

### 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)
- DNEL: Derived No-Effect Level (REACH) 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

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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.**