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Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018 Version number 3 Revision: 05.07.2018

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - Trade name: Hera SWE 2000
 - · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier: Kulzer Australia Pty Ltd 11 – 21 Underwood Rd HOMEBUSH NSW 2140

Australia Tel: +61 (0) 2 9764 5222

- · Informing department: see above
- · Emergency telephone number:

Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

· Classification of the substance or mixture

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

- · Label elements
 - GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapour.

Precautionary statements

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

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store in a well-ventilated place. Keep cool.

- · Other hazards -
 - · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: -

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· Dangerous components:			
CAS: 64-17-5 EINECS: 200-578-6	ethanol	Flam. Liq. 2, H225	> 90%
CAS: 67-64-1 EINECS: 200-662-2	acetone	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	0-5%

[•] Additional information For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · 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.

- Information for doctor
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- 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.
- · 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

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

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures
 - Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:

Dilute with much water.

Prevent material from reaching sewage system, holes and cellars.

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

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.

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See Section 13 for information on disposal.

7 Handling and Storage

- Handling
 - · 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.

- · 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.

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

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Component	Components with critical values that require monitoring at the workplace:		
64-17-5 ethano	I		
NES (Australia)	1880 mg/m³, 1000 ppm		
PEL (USA)	1900 mg/m³, 1000 ppm		
REL (USA)	1900 mg/m³, 1000 ppm		
TLV (USA)	Short-term value: 1880 mg/m³, 1000 ppm		
67-64-1 aceton	67-64-1 acetone		
NES (Australia)	Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm		
PEL (USA)	2400 mg/m³, 1000 ppm		
REL (USA)	590 mg/m³, 250 ppm		
TLV (USA)	Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm BEI		

· DNELs

-	JITLES		
64-17-5 et	64-17-5 ethanol		
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)	

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67-64-1 ad			
Oral	ge.pop., l.:	•	62 mg/Kg (nd)
Dermal	worker profess., acute, syst.		2420 mg/Kg/d (nd)
	worker profess., l.te., syst.		186 mg/Kg/d (nd)
	ge.pop., l.te, syst.		62 mg/Kg/d (nd)
Inhalative	halative worker profess., l.te., syst.		1210 mg/m3 (nd)
	ge.pop., l.t	te, syst.	200 mg/m3 (nd)
.	PNECs		
64-17-5 et	hanol		
freshwater	•	0.96 mg/l (nd)	
marine wa	ter	0.79 mg/l (nd)	
STP		580 mg/l (nd)	
 		3.6 mg/Kg (nd)	
soil,dw			
67-64-1 ad	cetone		
freshwate	•	10.6 mg/l (nd)	
marine wa	ter	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., dv	ı, mar.wat.	3.04 mg/Kg (nd)	
soil,dw	dw 0.112 mg/Kg (nd)		
.	ngredients	s with biological l	imit values:
67-64-1 ad	cetone		
BEI (USA)	urine end of sh	ift (nonspecific)	

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

· 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 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 ≤ 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

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Nitrile rubber, NBR

Eye protection: Protective goggles are recommended.

Body protection: Light weight protective clothing

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

General Information

· Appearance:

· Form: Fluid
· Colour: Colourless
· Smell: Alcohol-like
· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

· Melting point/freezing point: Not determined

· Initial boiling point and boiling range: 78 ℃

· Flash point: 16 ℃

· Inflammability (solid, gaseous) Not applicable.

· Ignition temperature: 425 ℃

Decomposition temperature: Not determined.

· Self-inflammability: Product is not selfigniting.

• Explosive properties: Product is not explosive. However, formation of

57 hPa

explosive air/vapour mixtures is possible.

· Critical values for explosion:

• **Lower:** 3,5 Vol % • **Upper:** 15,0 Vol %

· Steam pressure at 20 ℃:

· Density at 20 ℃ 0,79 g/cm³

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· dynamic: Not determined. · kinematic: Not determined.

· Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
 - Chemical stability
 - · Conditions to be avoided: No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions No decomposition if used according to specifications.

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- · Conditions to avoid Heat, flames and sparks.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

In case of fire the following can be released:

Carbon monooxide

Carbon dioxide

Danger of toxic pyrolysis products

· Additional information: -

11 Toxicological Information

- Information on toxicological effects
 - · Acute toxicity

. LD /	LD/LC50 values that are relevant for classification:			
64-17-5 e	64-17-5 ethanol			
Oral	LD50	6200 mg/kg (rat)		
Inhalative	LC50/4 h	0/4 h 95.6 mg/l (rat)		
67-64-1 a	67-64-1 acetone			
Oral	LD50	5800 mg/kg (rat)		
Dermal	LD50	20000 mg/kg (rabbit)		

- · Primary irritant effect:
 - Skin corrosion/irritation No irritant effect.
 - · Serious eye damage/irritation Irritant effect.
- · Respiratory or skin sensitisation No sensitizing effect known.

12 Ecological Information

- · Toxicity
 - · Aquatic toxicity:

67-64-1 acetone

EC50/48h 6100 mg/l (daphnia)

LC50/96h | 5540 mg/l (fish)

- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - 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.

- Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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13 Disposal considerations

- · 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.

Transport information	
UN-Number · ADG, IMDG, IATA	UN1170
UN proper shipping name · ADG · IMDG · IATA	1170 ETHANOL (ETHYL ALCOHOL), solution ETHANOL (ETHYL ALCOHOL), solution ETHANOL, solution
Transport hazard class(es)	
· ADG	
· Class · Label	3 (F1) Flammable liquids.
· IMDG, IATA	<u> </u>
· Class · Label	3 Flammable liquids. 3
Packing group · ADG, IMDG, IATA	II .
Environmental hazards: • Marine pollutant:	No
Special precautions for user Kemler Number: EMS Number:	Warning: Flammable liquids. 33 F-E, <u>S-D</u>
Transport in bulk according to Annex Marpol and the IBC Code	II of Not applicable.
Transport/Additional information:	-
ADG Limited quantities (LQ) Transport category	1 L 2



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· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1170, ETHANOL (ETHYL ALCOHOL), solution, 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapour.

Precautionary statements

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

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store in a well-ventilated place. Keep cool.

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

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 Căuses 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

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 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

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