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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Tel.: +49 (0)800 4372522

1 Identification

- · Product identifier
 - · Trade name: Hera SWE 2000
 - · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

· Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number)

GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· Classification of the substance or mixture

Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour.

- · Label elements
 - · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapour.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof [electrical/ventilating/lighting] equipment.

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

Ground and bond container and receiving equipment.

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

Store in a well-ventilated place. Keep cool.

- · Hazard description:
 - · Canadian Hazard Symbols

B2 - Flammable liquid



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· Classification system

· NFPA ratings for USA (scale 0-4)



Health = 0 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0 Fire = 3 Reactivity = 0

· Other hazards -

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - · Description: -

| Dangerous components: | | | |
|-----------------------|--|----------|--|
| | ethanol | >90% w/w | |
| | Flammable Liquids - Category 2, H225 | | |
| | acetone | 0-5% w/w | |
| | Flammable Liquids - Category 2, H225; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336 | | |

· 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 complaints.
 - · After skin contact Immediately wash with water and soap and rinse thoroughly.
 - · After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist 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 spray. Fight larger fire with alcohol resistant foam.

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· For safety reasons unsuitable extinguishing agents Water with full jet.

· Special hazards arising from the substance or mixture

In case of fire the following can be released:

Carbon monoxide (CO) Carbon dioxide (CO2)

Dangar of taxia fluoring based n

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 plenty of water.

Prevent seepage into sewage system, workpits 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 substances are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

-

7 Handling and storage

- · Handling
 - Precautions for safe handling Keep receptacles 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 receptacles: Store in a 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 receptacles.

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

8 Exposure controls/personal protection

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

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CDN -



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· Control parameters

· Components with limit values that require monitoring at the workplace:

64-17-5 ethanol

EL () Short-term value: 1000 ppm EV () 1.900 mg/m³, 1.000 ppm

67-64-1 acetone

EL () Short-term value: 500 ppm Long-term value: 250 ppm EV () Short-term value: 750 ppm Long-term value: 500 ppm

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

· Exposure controls

- Personal protective equipment
 - General protective and hygienic measures Wash hands before breaks and at the end of 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 through 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.
- · Body protection: Light weight protective clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
 - · General Information
 - · Appearance:

Form:
Color:
Color:
Colorless
Alcohol-like
Odor threshold:
Not determined.

· pH-value: Not determined.

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|--|--|
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | undetermined 78 °C (172 °F) |
| · Flash point: | 16 °C (61 °F) |
| · Flammability (solid, gaseous) | Not applicable. |
| · Ignition temperature: | 425 °C (797 °F) |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosivair/vapor mixtures are possible. |
| Explosion limits:Lower:Upper: | 3.5 Vol % 15.0 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 57 hPa (43 mm Hg) |
| Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate | 0.79 g/cm³ (6.593 lbs/gal) Not determined. Not determined. Not determined. |
| · Solubility in / Miscibility with · Water: | Fully miscible |
| · Partition coefficient (n-octanol/wa | ater): Not determined. |
| · Viscosity: · dynamic: · kinematic: · Other information | Not determined. Not determined. No further relevant information available. |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- Possibility of hazardous reactions No decomposition if used according to specifications.
 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 monoxide

Carbon dioxide
Danger of toxic pyrolysis products

· Additional information: -

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11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:

| · 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) | | | | |
| | | RTECŠ, Resorption Symptome: leichte Schleimhautreizung | | | | |
| 67-64-1 acetone | | | | | | |
| Oral | LD50 | 5800 mg/kg (rat) | | | | |
| Dermal | LD50 | 20000 mg/kg (rabbit) | | | | |

- Primary irritant effect:
 - · on the skin: No irritant effect.
 - · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
 - · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

64-17-5 ethanol

1

· NTP (National Toxicology Program)

None of the ingredients is listed.

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.
- · Behavior 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 course or sewage

- · 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 cleansing agent: Water, if necessary with cleansing agents.

· UN-Number

· DOT, TDG, IMDG, IATA

UN1170

· UN proper shipping name

· DOŤ, IATA

· TDG · IMDG ETHANOL, solution

1170 ETHANOL (ETHYL ALCOHOL), solution

ETHANOL (ETHYL ALCOHOL), solution

- · Transport hazard class(es)
 - · DOT



· Class · Label 3 Flammable liquids

· TDG (Transport dangerous goods):



· Class · Label

3 (F1) Flammable liquids

· IMDG, IATA



· Class · Label 3 Flammable liquids

· Packing group · DOT, TDG, IMDG, IATA

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|--|---|
| Environmental hazards: Marine pollutant: | No |
| Special precautions for user Danger code (Kemler): EMS Number: | <i>Warning: Flammable liquids</i> 33 <i>F-E,S-D</i> |
| · Transport in bulk according to Annex II MARPOL73/78 and the IBC Code | of Not applicable. |
| · Transport/Additional information: | - |
| · 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

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act) None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapour.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof [electrical/ventilating/lighting] equipment.

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

Ground and bond container and receiving equipment.

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

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H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Date of preparation / last revision 06/03/2017 / 2

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CASS: Chemical Abstracts Sociates (division of the American Chemical Sociates)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.