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

Printing date 10.01.2024

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Version number 3

Revision: 10.01.2024

SECTION 1: Identification of the substance/r undertaking • 1.1 Product identifier • Trade name: Hera SP 99 Boraxdecahydrat, borax decahy • CAS Number: 1303-96-4 • EC number: 215-540-4 • Index number: 005-011-00-4 • 1.2 Relevant identified uses of the substance or mixture and No further relevant information available. • Application of the substance / the mixture Auxiliary for mation • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier:	ydrate, borace decaidrato
 Trade name: Hera SP 99 Boraxdecahydrat, borax decahy CAS Number: 1303-96-4 EC number: 215-540-4 Index number: 005-011-00-4 1.2 Relevant identified uses of the substance or mixture and No further relevant information available. Application of the substance / the mixture Auxiliary for ma 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: 	
Boraxdecahydrat, borax decahy • CAS Number: 1303-96-4 • EC number: 215-540-4 • Index number: 005-011-00-4 • 1.2 Relevant identified uses of the substance or mixture and No further relevant information available. • Application of the substance / the mixture Auxiliary for mail • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier:	
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1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Manufacturer/Supplier:	nufacture of dental prothesis
Kulzer GmbH	
Leipziger Straße 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 4372522
 Informing department: E-Mail: msds@kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24 	-Hour-Number): +49 (0)6132-84463
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008	1
Eye Irrit. 2 H319 Causes serious eye irritation. Repr. 1B H360FD May damage fertility. May damage the ur	nborn child.
• 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the GB • Hazard pictograms	CLP regulation.
GHS07 GHS08	
· Signal word Danger	
 Hazard-determining components of labelling: disodium tetraborate decahydrate Hazard statements 	
H319 Causes serious eye irritation.	lla.



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(Contd. of page 1) P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. Additional information: Restricted to professional users. 2.3 Other hazards -Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. SECTION 3: Composition/information on ingredients · 3.1 Substances CAS No. Designation: 1303-96-4 disodium tetraborate decahydrate · Identification number(s): -• EC number: 215-540-4 · Index number: 005-011-00-4 ·SVHC 1303-96-4 disodium tetraborate decahydrate

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air and call for doctor for safety reasons.
- After skin contact instantly wash with water and soap and rinse thoroughly.
- After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. After swallowing

Rinse out mouth and then drink plenty of water.

- Seek medical treatment.
- · 4.2 Most important symptoms and effects, both acute and delayed Gastric or intestinal trouble
- 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 fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

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· 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 Ensure adequate ventilation Avoid causing dust. Wear protective equipment. Keep unprotected persons away. Use breathing protection against the effects of fumes/dust/aerosol. Avoid contact with eyes and skin. 6.2 Environmental precautions: Damp down dust with water spray jet. Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system. 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Collect mechanically. Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations. 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 Wear protective equipment. Keep unprotected persons away. Avoid contact with eyes and skin. Ensure good ventilation/exhaustion at the workplace. Extractor required on object. Prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly. • Information about protection against explosions and fires: The product is not flammable

·7.2 Conditions for safe storage, including any incompatibilities

· Storage

Requirements to be met by storerooms and containers: No special requirements.

- Information about storage in one common storage facility:
- Store away from foodstuffs.
- Store away from reducing agents.

Further information about storage conditions:

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

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This product is hygroscopic. Store in a locked cabinet or with access restricted to technical experts or their assistants. • 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Protect from humidity and keep away from water.

· 8.1 Control parameters

• **Components with critical values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

NO	re	qui	rea

Oralworker professional, acute, systemic worker professional, long term, systemic worker industrial, long term, systemic worker professinal, long term, local1.51 mg/Kg (not defined)Dermalworker industrial, long term, systemic worker professinal, long term, local599.6 mg/Kg/d (not defined)Inhalativeworker industrial, acute, local worker professional, acute, local worker industrial, long term, systemic worker industrial, long term, systemic worker industrial, long term, local22.3 mg/m3 (not defined)Worker industrial, long term, systemic worker industrial, long term, local worker professional, long term, local22.3 mg/m3 (not defined)Worker professional, long term, local worker professional, long term, local worker professional, long term, local22.3 mg/m3 (not defined)Worker professional, long term, local worker professional, long term, local22.3 mg/m3 (not defined)	
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1303-96-4 disodium tetraborate decahydrate	
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general population, long term, systemic 1.51 mg/Kg (not defined)	
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general population, acute, local 22.3 mg/m3 (not defined)	
general population, long term, systemic 6.5 mg/m3 (not defined)	
general population, long term, local 22.3 mg/m3 (not defined)	
PNECs	
sewage treatment plant 10 mg/l (not defined)	
soil, dry weight 5.4 mg/Kg (not defined)	
1303-96-4 disodium tetraborate decahydrate	
freshwater 2.02 mg/l (not defined)	
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	2.02 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
soil, dry weight	5.4 mg/Kg (not defined)
Additional inform 8.2 Exposure controls Appropriate engine Individual protection General protection Avoid contact with Ensure that washin Do not eat, drink of Pregnant women Avoid close or lon Use skin protection Keep away from for Instantly remove a Wash hands durin Store protective of Avoid contact with Breathing equipt Hand protection Impervious gloves Selection of the gli degradation Check the permea To avoid skin prote The glove mater preparation. Check protective of Raterial of glo Natural rubber, I Butyl rubber, B Fluorocarbon r Recommended	nation: The lists that were valid during the compilation were used as basis. ering controls No further data; see section 7. n measures, such as personal protective equipment we and hygienic measures in the eyes. ing facilities are available in the work place. or smoke while working. must strictly avoid inhalation or contact with the skin. g term contact with the skin. in cream for preventive skin protection. oodstuffs, beverages and food. any soiled and impregnated garments. hg breaks and at the end of the work. lothing separately. in the eyes and skin. ment: Filter P3. s love material on consideration of the penetration times, rates of diffusion and t ability prior to each anewed use of the glove. blems reduce the wearing of gloves to the required minimum. ial has to be impermeable and resistant to the product/ the substance/ t gloves prior to each use for their proper condition. NBR NBR BR
marks of qualit The selection	of the suitable gloves does not only depend on the material, but also on furth ty and varies from manufacturer to manufacturer. As the product is a preparati
marks of qualit The selection marks of qualit of several sub	of the suitable gloves does not only depend on the material, but also on furth ty and varies from manufacturer to manufacturer. As the product is a preparati stances, the resistance of the glove material can not be calculated in advan
marks of qualit The selection marks of qualit of several sub and has therefo	of the suitable gloves does not only depend on the material, but also on furth ty and varies from manufacturer to manufacturer. As the product is a preparati stances, the resistance of the glove material can not be calculated in advan fore to be checked prior to the application.
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and has to be observed.	to be found out by the manufacturer of the protective glove maximum of 15 minutes gloves made of the following eccessary thing.
SECTION 9: Physical and chemica	l properties
· 9.1 Information on basic physical and che	
· General Information	sinical properties
· Physical state	Solid.
· Colour:	White
· Smell:	Odourless
· Odour threshold:	Not determined.
• Melting point/freezing point:	62 °C
Boiling point or initial boiling point	
boiling range	1575 °C
· Flammability	Product is not inflammable.
	Product is not innammable.
 Lower and upper explosion limit 	
· Lower:	Not determined.
_ Upper:	Not determined.
Flash point:	Not applicable
Decomposition temperature: SADT	Not determined.
pH at 20 °C	9.2
· Viscosity:	•
· Kinematic viscosity	Not applicable.
· Kinematic viscosity	
· dynamic:	Not applicable.
· Solubility	
· Water at 20 °C:	~47 g/l
· Partition coefficient n-octanol/wate	
value) at 25 °C	-0.757 log POW
· Steam pressure at 20 °C:	0 hPa
· Vapour pressure:	
· Density and/or relative density	
· Density at 20 °C	1.71 g/cm³
· Relative density	Not determined.
· Vapour density	Not applicable.
· 9.2 Other information	No further relevant information available.



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· Appearance:		
Form:	Solid in various forms	
	Powder	
	Granulate	
Important information on protection of health		
and environment, and on safety.		
Self-inflammability:	Not determined.	
· Explosive properties:	Product is not explosive.	
	Not determined.	
· Solids content:	100.0 %	
Change in condition		
· Evaporation rate	Not applicable.	
Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
Gases under pressure	Void	
· Flammable liquids	Void	
· 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	VOId	
	Void	
flammable gases in contact with water	Void	
· Oxidising liquids	Void Void	
· Oxidising solids	Void Void	
• Organic peroxides • Corrosive to metals	Void Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

 10.1 Reactivity No further relevant information available.
 10.2 Chemical stability

 Conditions to be avoided: No decomposition if used and stored according to specifications. Loss of constitutional water on heating

 10.3 Possibility of hazardous reactions Reacts with reducing agents Reacts with light alloys to form hydrogen
 10.4 Conditions to avoid No further relevant information available.

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• **10.5 Incompatible materials:** Reacts with reducing agents

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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:
1303-96-4 disodium tetraborate decahydrate
Oral LD50 4,500-5,000 mg/kg (rat)
Dermal LD50 >10,000 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 May damage fertility. May damage the unborn child. 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. Additional toxicological information: May impair fertility. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
· Endocrine disrupting properties
Substance is not listed.
SECTION 12: Ecological information
· 12.1 Toxicity
Aquatic toxicity:
1303-96-4 disodium tetraborate decahydrate
EC50/48h 1,085-1,402 mg/l (daphnia)
 12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. 12.4 Mobility in soil No further relevant information available.
• 12.5 Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable. • 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

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[•] 12.7 Other adverse effects

• Additional ecological information:

General notes: Avoid transfer into the environment.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations.

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

SECTION 14: Transport information	า	
14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: • Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according i instruments	to IMO Not applicable.	
· Transport/Additional information:	-	
UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)

· Information about limitation of use:

Employment restrictions concerning young persons must be observed. Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning women of child-bearing age must be observed.

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(Contd. of page 9) • **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. • Abbreviations and acronyms: 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) PDS: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPNB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 1B: Reproductive toxicity – Category 1B • * Data compared to the previous version altered.