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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.03.2023

Version number 3.00 (replaces version 2.00)

Revision: 08.03.2023

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

- · Product identifier
- · Trade name: Chlorhexidindigluconat-Lösung (wässrig, ca. 20%), API
- Article number: 4178
- **Registration number** The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from:
 E-mail: info@caelo.de
 Tel.: +49210349940 (during regular opening hours)
- Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

2 Hazards identification

· Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- Eye Dam. 1 H318 Causes serious eye damage.
- Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



- Signal word Danger
- · Hazard statements
- H318 Causes serious eye damage.



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Trade name: Chlorhexidindigluconat-Lösung (wässrig, ca. 20%), API

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H410 Very toxic to aquatic life with long lasting effects.				
· Precautionary statements				
P101 If medical advice is needed, have product container or label at hand.				
P102 Keep out of reach of children.				
P103 Read carefully and follow all instructions.				
P273 Avoid release to the environment.				
P280 Wear eye protection / face protection.				
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove conta present and easy to do. Continue rinsing.	ct lenses, if			
P310 Immediately call a POISON CENTER/doctor.				
P391 Collect spillage.				
P501 Dispose of contents/container in accordance with local/regional/national/inte regulations.	rnational			
· Other hazards				
Results of PBT and vPvB assessment				
· PBT: Not applicable.				
· vPvB: Not applicable.				
· Determination of endocrine-disrupting properties Not applicable.				
3 Composition/information on ingredients				
·Mixtures				

Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 18472-51-0 Chlorhexidine digluconate EINECS: 242-354-0 Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 20.0%

· Non-hazardous components CAS: 7732-18-5 Water

• 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: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult 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 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.



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• Special hazards arising from the substance or mixture not combustible

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information
- Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Avoid contact with the substance.
- · Environmental precautions:
- Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

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 disposal information.

7 Handling and storage

• Precautions for safe handling Thorough dedusting.

· Information about fire - and explosion protection: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: TRHS 510: 8 B Non-combustible corrosive substances
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit 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.
- \cdot Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see item 7.

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Trade name: Chlorhexidindigluconat-Lösung (wässrig, ca. 20%), API

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Respiratory protection: Dust protection mask.
- · Hand protection Protective gloves
- Material of gloves

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

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Physical state Solid · Colour: Clear · Odour: Odourless · Odour threshold: Not determined. · Melting point/freezing point: 169 °C · Boiling point or initial boiling point and boiling range 288 °C (CAS: 18472-51-0 Chlorhexidine digluconate) · Flammability Not determined. · Lower and upper explosion limit Not determined. · Lower: · Upper: Not determined. · Flash point: Not applicable. · Decomposition temperature: Not determined. · pH Not applicable. · Viscosity: · Kinematic viscosity Not applicable. · Dynamic: Not applicable. · Solubility · water: Soluble. · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure: Not applicable. · Density and/or relative density · Density at 20 °C: 1.32 g/cm³ · Relative density Not determined. · Vapour density Not applicable. (Contd. on page 5) IE



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Trade name: Chlorhexidindigluconat-Lösung (wässrig, ca. 20%), API

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· Particle characteristics	(Contd. of page 4) Not determined
	Not determined
· Other information	
Appearance:	
· Form:	Fluid
Important information on protection of health	
and environment, and on safety. • Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not sengining. Product does not present an explosion hazard.
Change in condition	r rouder does not present an explosion nazard.
· Evaporation rate	Not applicable.
•	
 Information with regard to physical hazard 	
classes · Explosives	Void
Explosives	Void Void
· Flammable gases	Void
	Void
Aerosols	Void
	Void
· Oxidising gases	Void
	Void
[.] Gases under pressure	Void
	Void
· Flammable liquids	Void
· Flammable solids	Void Void
Flammable solius	Void
• Self-reactive substances and mixtures	Void
	Void
· Pyrophoric liquids	Void
	Void
Pyrophoric solids	Void
	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammab	Void
gases in contact with water	Void
guoco in contact with watch	Void
· Oxidising liquids	Void
0 1	Void
· Oxidising solids	Void
	Void
· Organic peroxides	Void
	Void
· Corrosive to metals	Void Void
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· Desensitised explosives

Void Void (Contd. of page 5)

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10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: organic chlorine compounds

*11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye damage.
- 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** 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.
- · Information on other hazards

· Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- ·Toxicity
- Aquatic toxicity:

CAS: 18472-51-0 Chlorhexidine digluconate

EC50 397 mg/L (Algae)

980 mg/L (invertebrates)

- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- \cdot Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.



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· Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

· Other adverse effects

- · Remark: Very toxic for fish
- Additional ecological information:

· General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

*13 Disposal considerations

· Waste treatment methods

• **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

- Recommendation: Disposal must be made according to local regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · UN number or ID number
- · ADR, IMDG, IATA
- · UN proper shipping name

UN3077

ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. D-Gluconic acid,
	compound with N,N"-bis(4-chlorophenyl)-3,12-diimino- 2,4,11,13-
	tetraazatetradecanediamidine (2:1)) (D-Gluconic acid, compound with N,N"-
	bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-
	tetraazatetradecanediamidine
	(2:1)
·IMDG	ÈNVIRONMENTALLY HAZARDOUS SUBSTANCE,
	SOLID, N.O.S., D-Gluconic acid,
	compound with N,N"-bis(4-chlorophenyl)-3,12-diimino- 2,4,11,13-
	tetraazatetradecanediamidine (2:1)) (D-Gluconic acid, compound with N,N"-
	bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-
	tetraazatetradecanediamidine
	(2:1), MARINE POLLUTANT
	Environmentally hazardous substance, solid, n.o.s. D-
	Gluconic acid,
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sion 2.00)



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• • • •	
	(Contd. of page 7) compound with N,N"-bis(4-chlorophenyl)-3,12-diimino- 2,4,11,13- tetraazatetradecanediamidine (2:1)) (D-Gluconic acid, compound with N,N"- bis(4-chlorophenyl)-3,12-diimino-2,4,11,13- tetraazatetradecanediamidine (2:1)
 Transport hazard class(es) 	
· ADR, IMDG, IATA · Class · Label · Packing group	9 Miscellaneous dangerous substances and articles. 9
ADR, IMDG, IATA	111
Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
 Special precautions for user 	Warning: Miscellaneous dangerous substances and articles.
 Hazard identification number (Kemler code): 	: 90
EMS Number:	F-A,S-F
 Maritime transport in bulk according to IMO instruments 	Not applicable.
 Transport/Additional information: 	
 ADR Limited quantities (LQ) Transport category Tunnel restriction code 	5 kg 3 -
 IMDG Limited quantities (LQ) UN "Model Regulation": 	5 kg UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III

15 Regulatory information

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

- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

· National regulations:

 Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 8 B Non-combustible corrosive substances

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Trade name: Chlorhexidindigluconat-Lösung (wässrig, ca. 20%), API

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

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

Reasons for alterations This version replaces all old versions.

Relevant phrases H318 Causes serious eye damage. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- Date of previous version: 06.03.2023
- · Version number of previous version: 2.00

Abbreviations and acronyms: 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 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) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 ** Data compared to the previous version altered.