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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Chlorhexidine gluconate 0.5% aqueous

Chloorhexidini gluconas 0,5% aquosum Chloorhexidinegluconaat 0,5% waterig Gluconate de chlorhexidine 0,5% aqueux Chlorhexidingluconat 0,5% wässrig

N° CAS: Not available.
N° EC: Not available.

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Active Pharmaceutical Ingredient or Excipient.

1.3 Details of the supplier of the safety data sheet

Company: Magis-Pharma NV

Neerlandweg 24 2610 Wilrijk Belgium

Telephone: (+32) (0)3 457 11 76
Email: info@magis-pharma.be
Web page: www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation: Belgisch Antigifcentrum Centre Antipoisons Belge

Telephone: (+32) (0)70 245 245 (Service 24/7)

Web page: www.antigifcentrum.be www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4 H302
Eye Dam. 1 H318
Eye Irrit. 2 H319
Aquatic acute 1 H400
Aquatic chronic 1 H410

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

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Hazard statements:

H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P317 IF SWALLOWED: Get medical help.

P305+P354+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing.

P317 Get emergency medical help.

P330 Rinse mouth.
P391 Collect spillage.

P501 Dispose of contents/container to an approved waste disposal plant.

Additional applicable label

elements:

Not applicable.

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Product name: Chloorhexidini gluconas

IUPAC name: (1E)-2-[6-[[amino-((E)-[amino-(4-

chloroanilino)methylidene]amino]methylidene]amino]hexyl]-1-[amino-(4-

chloroanilino)methylidene]guanidine;(2R,3S,4R,5R)-2,3,4,5,6-pentahydroxyhexanoic

acid

Synonyms: Chlorhexidine gluconate

Hibiclens Hibistat

 N° CAS:
 18472-51-0

 N° EC:
 242-354-0

 Molecular Formula:
 $C_{34}H_{54}Cl_2N_{10}O_{14}$

 Content:
 0,5% (M/V)

Product name: Aqua purificata

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IUPAC name: Oxidane

Synonyms: Water

Dihydrogen oxide Distilled water

N° CAS: 7732-18-5 N° EC: 231-791-2

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes: Pay attention to self-protection. Remove victims from hazardous area. Immediately

remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered. Do not leave victims unattended. If the casualty

is unconscious: Place the victim in the recovery position.

After inhalation: Potential for exposure by inhalation if aerosols or mists are generated. After

inhalation move subject to fresh air. With labored breathing: Provide with oxygen. Consult a doctor. If the casualty is not breathing: Perform mouth-to-mouth

resuscitation, notify emergency physician immediately.

After skin contact: Wash off affected area immediately with plenty of water for at least 15 minutes. If

symptoms persist, consult a physician for treatment.

After eye contact: With eye held open, thoroughly rinse immediately with plenty of water for at least 10

minutes. Inform emergency physician immediately. (key term: caustic eye burn)

After ingestion: Rinse mouth. Immediately give large quantities of water to drink. Inform emergency

physician immediately.

Self-protection of the first

aider:

Wear a self contained respiratory apparatus, full protective suit.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye burns. Causes severe eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

The initial focus is only on the local action, characterized by quickly progressing deep tissue damage. Coughing is a symptom of a respiratory tract irritation after inhalation of aerosols or mists from caustic liquids. In the eye, caustic liquids cause, depending on the intensity of exposure, severe irritation, destruction, and ablation of the epithelium of the conjunctiva and cornea, corneal clouding, edema and ulcerations. Danger! Possible loss of eyesight! Superficial irritations and damage up to ulcerations and scarring develop on the skin.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder, mist

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance/mixture

May be released in case of fire: hydrogen chloride, carbon monoxide, carbon dioxide, organic products of decomposition, flammable smoldering gases, Nitrogen Oxides.

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5.3 Advice for firefighters

Surrounding fires: Contaminated extinguishing water must be treated at a suitable

disposal plant in accordance with waste management laws. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Use water spray to cool unopened containers. Fire residues should be disposed of in accordance with the regulations. Keep out unprotected persons.

Protection against fire: Wear a self contained respiratory apparatus full protective suit.

Hazardous combustion products: The product itself does not burn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unauthorized personnel away.

For emergency responders

Keep unauthorized personnel away.

6.2 Environmental precautions

Observe regulations on prevention of water pollution (check, dam up, cover up). Do not allow entrance in sewage water, soil, stretches of water, drainage systems, surface water. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material e.g. inert absorbent. Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal. Transfer into suitable containers. Disposal according to local authority regulations. Clean contaminated surface thoroughly.

6.4 Reference to other sections

Not available.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Personal protection:

Precautions for safe handling: Use personal protective equipment. The product should only be

handled by trained personnel. No special measures are necessary if properly handled. Avoid residues of the product on the containers.

Use personal protective equipment.

Technical protective measures: Normal measures for preventive fire protection. Ensure there are

sufficient retaining facilities for water used to extinguish fire.

Handling: The product itself does not burn. Apply solution directly or me using

a sterile compress. Allow to dry without wiping.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in the original receptacle, keeping this tightly sealed, under cool

and dry conditions. The product should not be stored at under 1°C or

above 25°C.

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Conditions for safe storage, including any

incompatibilities:

Store in the original receptacle, keeping this tightly sealed, under cool $\label{eq:cool} % \[\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right)$

and dry conditions.

Storage – away from: Avoid exposure to light /sunlight. Protect from frost.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits: Observe national threshold limit values. Biological limit values: No biological exposure limits noted for the ingredients.

8.2 Exposure controls

Appropriate engineering control

Ensure suitable suction/aeration at the work place and with operational machinery. Provide for installation of emergency shower and eye bath.

Individual protection measures

Eye/face protection: Safety glasses with side-shields conforming to EN166 or when handling larger

quantities: basket-shaped glasses.

Skin protection: Wear appropriate protective clothing to prevent skin exposure.

Hand protection: Wear appropriate protective gloves to prevent skin exposure.

Respiratory protection: Use suitable respiratory protection where aerosols/vapours are generated. When

handling for a short time: Respirator with ABEK combination filter in the event of prolonged exposure during handling: wear a self contained respiratory apparatus

Note time limit for wearing respiratory protective equipment.

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Almost colourless or pale-yellowish liquid.

Odourless

Odour threshold: Not applicable.

pH: 5,5 – 7,0 (10g/L, 20 °C)

Melting/freezing point:

Initial boiling point:

Not available.

Boiling range:

Not available.

Flash point: 100°C

Evaporation rate: Not available. Flammability (solid/gas): Not available.

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Upper/lower flammability or

explosive limits:

Not available.

Vapour pressure: Not available.
Vapour density: Not available.

Relative density: Density: 1,065 g/cm3 (20 °C) (OECD Test Guideline 109)

Solubility: Ethanol.: approx. 21 g/L Chlorhexidine di(gluconate)

Isopropanol: approx. 35 g/L Chlorhexidine di(gluconate) Acetone: approx. 44 g/L Chlorhexidine di(gluconate)

Solubility in water: (20 °C, OECD Test Guideline 105) completely miscible tested substance: Chlorhexidine

di(gluconate)

Partition coefficient (n-octanol/water):

-1,81 (OECD TG 107, measured) tested substance: Chlorhexidine di(gluconate)

Auto-ignition temperature: Not available.

Decomposition temperature: 157 °C initial temperature of decomposition

Viscosity: Kinematic viscosity: 2,51 mm2/s (20 °C, OECD 114) | 1,46 mm2/s (40 °C, OECD 114)

Dynamic viscosity: 2,51 mPa·s (20 °C) | 1,46 mPa·s (40 °C)

Explosive properties: Not to be expected in view of the structure.

Oxidising properties: Not to be expected in view of the structure.

9.2 Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not available.

10.2 Chemical stability

Under proper storage conditions, the specification parameters as per the European Pharmacopoeia are maintained over a period of 24 months. (stability conditions 25°C+- 2 K and 60%+-5%)

10.3 Possibility of hazardous reactions

No hazardous reactions are known if properly handled and stored.

10.4 Conditions to avoid

Light effect exposure to sunlight. Freezing.

10.5 Incompatible materials

Avoid contact with oxidizing agents. Alkalis.

10.6 Hazardous decomposition products

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Oral: Acute toxicity estimate: > 5.000 mg/kg

Dermal: LD₅₀ (Rabbit): > 5.000 mg/kg [Chlorhexidine di(gluconate)]

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Skin corrosion/irritation: Slightly irritating. OECD Test Guideline 404 (Rabbit, 4 h): Slightly irritating. Serious eye damage/irritation: Risk of serious damage to eyes. Rabbit: Risk of serious damage to eyes.

Respiratory/skin sensitisation: Maximization test, OECD Test Guideline 406 (Guinea Pig): Not a skin sensitizer.

literature

Germ cell mutagenicity: In vitro: Ames test (OECD 471): negative

Gene mutation (HGPRT-Test) (OECD 476): negative Cytogenetic test (OECD TG 473): negative Solution, 5%

In vivo: Not available.

Carcinogenicity: Did not show carcinogenic effects in animal experiments.

Reproductive toxicity:
Summary of evaluation of the

CMR properties:

Not available. Not available.

STOT-single exposure: Not available.
STOT-repeated exposure: Not available.
Aspiration Hazard: Not available.
Other: Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact: Relevant route of exposure. Symptoms not available.

Skin contact: Relevant route of exposure. Symptoms not available.

Inhalation: Relevant route of exposure. Symptoms not available.

Ingestion: If handled correctly, not a relevant route of exposure. Symptoms not available.

Aspiration: Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute hazards to the aquatic environment:

Fish: LC₅₀ (Brachydanio rerio, 96 h): 2,08 mg/L

Aquatic Invertebrates: EC₅₀ (Daphnia magna (Water flea), 48 h): 0,087 mg/L

Chronic hazards to the aquatic environment: Fish: Not available.

Aquatic Invertebrates: NOEC (Daphnia magna (Water flea), 21 d): 0,1 mg/L

EC₅₀ (Daphnia magna (Water flea), 21 d): 0,174 mg/L NOEC (Daphnia magna (Water flea), 21 d): 0,0206 mg/L EC₅₀ (Daphnia magna (Water flea), 21 d): 0,0358 mg/L

Toxicity to Aquatic Plants: ErC₁₀ (Desmodesmus subspicatus (green algae), 72 h): 0,03 mg/L growth rate

EC₅₀ (Desmodesmus subspicatus (green algae), 72 h): 0,081 mg/L growth rate

12.2 Persistence and degradability

Biodegradation: Not readily biodegradable. A number of studies in sewage treatment plants were located in the scientific literature. These studies resulted either in no degradation or only slight degradation.

BOD/COD Ratio: Not available.

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12.3 Bioaccumulative potential

Bioconcentration Factor (BCF): Leuciscus idus (Golden orfe), Bioconcentration Factor (BCF): 42 (Measured)

low literature

Leuciscus idus (Golden orfe), Bioconcentration Factor (BCF): 40 (Measured)

low literature

12.4 Mobility in soil

Log Koc: > 3,9 (OECD Test Guideline 121)

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

The substance can damage sediment organisms (NOEC Chironomus riparius (OECD 218): 21 mg/kg dry weight)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contaminated packaging: Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

SECTION 14: TRANSPORT INFORMATION

Transport information	according to	ADR/RID	IMDG/ICAO/IAT	Λ
Transport iniormation	according to	AUR/RIU/	INDUTICAUTIAL	А.

14.1 UN Number

ADR/RID(Land), IMDG(Sea),

IATA/ICAO (Air):

3082

14.2 UN proper shipping name

ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

IATA-DGR: Environmentally hazardous substance, liquid, n.o.s. (chlorhexidine

digluconate)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorhexidine

digluconate)

14.3 Transport hazard class(es)

ADR/RID(Land),IMDG(Sea),

9

IATA/ICAO (Air):

14.4 Packing group

ADR/RID(Land),IMDG(Sea),

IATA/ICAO (Air):

14.5 Environmental hazards

ADR/RID(Land),IMDG(Sea),

IATA-DGR: Environmentally hazardous

IATA/ICAO (Air): IMDG: Marine pollutant

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

In order to ensure due transportation, make certain that stacks are of the correct height, containers are securely fastened so as not to fall off, and labelled according to the regulations. In the event of internal transportation, already-opened containers are to be kept closed in order to avoid spillage.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Corrosive Dangerous for the environment

Risk phrases: R36 Irritating to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

15.2 Chemical safety assessment

Not available.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC (number): European Community (number)

IATA: International Air Transport Association
ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous GoodsIUPAC: International Union of Pure and Applied ChemistryPBT: Persistent, Bioaccumulative and Toxic substance

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STOT: Specific Target Organ Toxicity
UN (number): United Nations (number)

vPvB: very Persistent and very Bioaccumalative

16.3 Key literature references/sources for data

European Chemicals Agency.

https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/

16.4 Method of classification in case of mixture

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This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the Magis-Pharma NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. Magis-Pharma NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

16.8 Department issuing MSDS

Magis-Pharma NV

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