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| Reference: Regulation (EC) 1907/2006 453/2010 | MATERIAL SAFETY DATA SHEET (MSDS) Product: BactiScrub | Version 05 Date last revision: 16.05.17 SHEET 1 de 7 |
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1. IDENTIFICATION OF SUBSTANCE/ MIXTURE AND OF THE COMPANY:

1.1. Product identifier BactiScrub

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance: Antiseptic soap for healthy skin, with 4% Chlorhexidine

Spanish Ministry of Health register:

Register num. DGFyPS: 828-DES

1.3. Details of the supplier of the safety data sheet

Manufacturer: VESISMIN S.L. C/Lluçà, 28 5^o – 08028 Barcelona (Spain).

vesimin@vesimin.com

Telephone number: +34 934 095 301

Fax: +34 933 396 628

1.4. Emergency number: +34 934 095 301 (working hours)

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to EC Regulation num. 1272/2008 [CLP]

EYE DAMAGE / EYE IRRITATION. Category 1 (H318)

ACUTE AQUATIC. Category 1 (H400)

CHRONIC AQUATIC. Category 2 (H411)

2.2. Label elements: according to EC Regulation num. 1272/2008 [CLP]

Hazard pictograms:



Signal word : DANGER

Hazard statements:

- Causes serious eye damage (H318)
- Very toxic to aquatic life (H400)
- Toxic to aquatic life with long lasting effects (H411)
- To avoid risks to human health and the environment, comply with the instructions for use (EUH 401)

Precautionary Statements

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338).
- If eye irritation persists: Get medical advice/attention (P337 + P313)
- Avoid release to the environment (P273)
- Collect spillage (P391)

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- Dispose of contents and container in accordance with local regulations (P501)

2.3. Other hazards

No significant environmental or health risks if used under standard conditions of commercial and industrial use.

PBT: This product is not identified as PBT/vPvB

3. COMPONENT COMPOSITION / INFORMATION

3.2. Substance/Mixture: Mixture

Dangerous components:

| Ingredients | CAS num | Nº EC | Classification** 1272/2008 | Conc. (%) |
|----------------------------|------------|-----------|---|----------------------------|
| Chlorhexidine digluconate* | 18472-51-0 | 242-354-0 | Eye Dam. 1: H318 Aquatic Acute 1: H400 | 4% |
| Excipients and water | - | - | | Csp. 100% (water > 80%) |

* EU name: D-gluconic acid, compound with N,N'-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)

** Complete text of hazard statements phrases indicated in this Section are explained in Section 16.

4. FIRST AID MEASURES:

4.1. Description of first aid measures

First aid measures:

Swallowing: (*) Rinse mouth with water and seek immediate medical assistance. If the patient is conscious, supply water.

Inhalation (ethanol): Transfer the victim to a non contaminated atmosphere. In case of breathing interruption, apply artificial respiration. Maintain the patient in repose and seek medical advice.

Eye contact: Wash with plenty of water for at least 15 minutes. If irritation persists, consult an ophthalmologist.

4.2. Most important symptoms and effects, both acute and delayed

It can cause eye irritation

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms as they occur.

Skin contact: a significant or prolonged irritation by skin contact is not expected. Systemic adverse effects by contact or absorption through the skin are not expected. Avoid contact with eyes, middle ear (risk of perforation of the eardrum if the product reaches in great amounts the external conduit, with possibility of neurosensorial deafness) and meninges.

5. FIRE-FIGHTING MEASURES

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5.1. Extinguishing media

Suitable extinguishing tools: Foam, dry chemical powder, CO₂, sand and water spray fog. Remove containers from fire or cool them with water.

5.2. Special hazards arising from the substance or mixture

Special hazards of fire/explosion: The combustion or thermal decomposition releases toxic fumes, including carbon dioxide and nitrogen, and compounds containing chlorine. Evacuate the area

Special measures: Store used water for its later disposal. The disposal must be done according to local or national regulation. Contain the liquid and avoid the penetration into drains and water course. Contain all the material used in the fire fighting.

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters: Fire-fighters must be provided with adequate protective equipment, and respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES:

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: For industrial spills of the liquid, ensure full personal protection is worn (see Section 8). Keep unauthorised personnel from the spillage area.

6.2. Environmental precautions

Environmental precautions: Eliminate the spilled product with sand, soil or other adequate adsorbing material. Place the collected product in containers that can be closed. The disposal must be done according to local or national regulation. Ventilate the area and clean the zone once the spillage is collected.

6.3. Methods and material for containment and cleaning up

Cleaning measures: Do not release product into drainpipes or in the environment. Eliminate the spilled product with materials that act as absorbents (sawdust, peat, or chemical chelating agents). Place the collected product in containers that can be closed. Clean floors and all objects with this material using a damp cloth. Collect the cleaning materials and place them inside containers that can be closed. Ventilate the area and clean the zone once the spillage is collected.

6.4. Reference to other sections

For recommended personal protective equipment see Section 8.
For disposal considerations see Section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling: Take measures to avoid splashing in the eyes.

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7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in high density polyethylene or PET containers. Keep away from direct sunlight and other heat or ignition sources. Keep the container well closed and in a cool and well ventilated place. Store only in the original containers. Do not keep at temperatures higher than 25°C. Avoid freezing.

7.3. Specific end use

Identified in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Non applicable.

8.2. Exposure controls

Hygienic measures: Do not eat, drink or smoke during use.

Exposure control: Avoid spilling, contact with eyes and ingestion.

Equipment to provide adequate personal protection: Product designed for skin use. For professional use of the liquid, the need for personal protective equipment should be based on a workplace risk assessment for the particular use. Prevent skin and eye contact by wearing chemical resistant gloves (eg. Rubber, neoprene, PVC) and safety goggles. Where more extensive contact may occur, wear suitable protective clothing (e. apron, sleeves, boots). PPE should be to European regulations. Consult manufacturers concerning breakthrough times.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Aspect: Transparent rose liquid gel

Odour: characteristic

pH: 4.5-6.5 (20 °C)

Flammability: Non flammable

Vapour pressure: not available

Density specific: not available

Solubility in water: 100% soluble (20 °C)

Partition coefficient: not available

Auto-ignition temperature: not available

Decomposition temperature: not available

9.2. Other information

Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity: Keep away from heat and direct sunlight. Keep away from direct

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flames and sources of ignition. Keep away from oxidisers.

10.2. Chemical stability

Product is stable in recommended conditions of handling and storage.

10.3 Possibility of hazardous reactions

It does not present.

10.4. Conditions to avoid

Non applicable

10.5. Incompatible materials

Materials to avoid: Considering the cationic character of Chlorhexidine salts, these are chemically non-compatible with anionic compounds. Keep away from sulphates, borates, bicarbonates, chlorides...

10.6. Hazardous decomposition products

Combustion or thermal decomposition release toxic fumes.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

This preparation has not been tested for toxicological effects. Based on the known effects of the ingredients, the product is classified for human health effects as indicated below.

Acute toxicity: Non classified as harmful by ingestion, skin contact or inhalation

Corrosivity/irritation: not classified as corrosive or irritating

Sensitisation: no ingredient has been identified as having sensitising properties

Repeated dose toxicity: repeated skin exposure may cause contact dermatitis

Carcinogenicity/mutagenicity/toxicity for reproduction: no information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Contains a substance (chlorhexidine digluconate) which can be toxic to aquatic organisms, but at the levels contained in this mixture it is not considered to be toxic.

Chlorhexidine digluconate (active ingredient – concentrated):

Toxic to fish, daphnia and algae. LC50 (fish, 48h) = 13,4 mg/l. EC50 (Daphnia magna, 48h) = 0.087 mg/l. EC50 (algae, 72h): 0,081 mg/l.

12.2 Persistence and degradability

Contains a substance (chlorhexidine digluconate) which is not readily biodegradable.

12.3 Bioaccumulative potential: no information available

12.4 Mobility soil: no information available

12.5 Results of PBT and vPVP assessment: no information available

12.6 Other adverse effects: no information available

13. DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

This product may be disposed of via the drains, by landfill, or by incineration. Disposal must be in accordance with current national and local regulations.

In industry, chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste.

General EU requirements are given in the Waste Directive 2008/98/EC

14. TRANSPORT INFORMATION

14.1. UN number

Not applicable

Road/Train transport (ADR/RID): not applicable

Sea transport (IMDG): not applicable

Air transport (IATA): not applicable

The substance is not dangerous for transport (European Agreement on International Transport of Dangerous Goods)

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable

14.4. Packaging group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

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

The information for safety and health with respect to the label of this product is in accordance with the European Union regulation: n° 1907/2006, 453/2010 and 830/2015.

European legislation: Regulation (EC) n° 1272/2008

15.2. Chemical safety assessment: not required

16. OTHER INFORMATION

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Other information: The text in the SDS which has changed since the last version.

Complete text of hazard statements as referred to in sections 2 and 3:

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects

Formation advice:

The product must be handled by specialized personnel, following manufacturer instructions.

Changes from last version refer to format and content of EC Regulation 453/2010.

Calculation method determination according to Regulation (EC) 1272/2008 has been used for the classification of the mixture.

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