1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY:

1.1. Product identifier: Bactiseptic Orange
1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance: Antiseptic disinfectant for healthy skin.
Spanish Ministry of Health register:
Register num. DGFyPS: 715-DES
1.3. Details of the supplier of the safety data sheet
Manufacturer: Vesismin S.L. C/Lluça, 28 5º - 08028 Barcelona (Spain)
vesismin@vesismin.com
Telephone number: +34 934 095 301
Fax: +34 933 396 628
e-mail: vesisimin@vesismin.com
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]

- LIQUID FLAMMABLE. Category 2 (H225)
- EYE IRRITATION. Category 2 (H319)
- STOT SE. Category 3 (H336)
- AQUATIC CHRONIC. Category 3 (H412)

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

- "!
- 🔥

Signal word: DANGER
Hazard statements:
- Highly flammable liquid and vapour (H225)
- Causes serious eye irritation (H319)
- May cause drowsiness or dizziness (H336)
- Harmful to aquatic life with long lasting effects (H412)
- To avoid risks to human health and the environment, comply with the instructions for use (EUH 401)

Precautionary Statements
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking. (P210)
- Avoid release to the environment (P273)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P005 + P051 + P038)
- If eye irritation persists: Get medical advice/attention. (P033 + P013)
- Store in a well-ventilated place. Keep container tightly closed. (P043 + P033)
- Dispose of contents and container in accordance with local regulations (P501)
2.3. Other hazards
Flammable (contains isopropyl alcohol). Wait until total evaporation
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:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS num.</th>
<th>Classification 1272/2008</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorhexidine digluconate D-gluconic acid, compound with N,N”-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)</td>
<td>18472-51-0</td>
<td>Eye Dam. 1: H318 Acute aquatic 1: 400</td>
<td>2%</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>Flam. liq 2: H225 Eye Irrit. 2: H319 STOT SE 3: H336</td>
<td>70%</td>
</tr>
<tr>
<td>Excipients and water</td>
<td>-</td>
<td>-</td>
<td>gsf 100 %</td>
</tr>
</tbody>
</table>

Complete text of Hazard statements 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: 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.

(*) Medical information: do not induce vomiting. Perform a stomach-pumping previous to adding dimeticone (antifoam).

4.2. Most important symptoms and effects, both acute and delayed
Effects and symptoms: No specific effects and/or symptoms are known. Symptoms derived from isopropyl alcohol: headaches, vertigo, narcosis, drowsiness. The swallowing can cause inebriation, coma. Skin, eye and respiratory tract irritation.

Eye contact: irritating to the eyes

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.

4.3. Indication of any immediate medical attention and special treatment needed
See section 4.1.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing tools: Foam, dry chemical powder, CO₂, sand and water spray fog.

5.2. Special hazards arising from the substance or mixture
Special hazards of fire/explosion: Extremely flammable product with heat, sparks, static electricity or flames. Vapour/air mixtures are explosive. The combustion or thermal decomposition releases toxic fumes. Evacuate the area.

Special measures: Cool the bottles by pulverising water to them if they have been exposed to fire. Do not directly spray with water. Keep away from sources of ignition – Do not smoke. 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: Take common precautions. Extinguish the flames. Eliminate ignition sources. Do not smoke. Avoid sparks. Use suitable respiratory protection equipment. Use adequate protective cloths, gloves and eyes/skin protection. Contaminated clothing must be cleaned thoroughly.

6.2. Environmental precautions
Environmental precautions: Avoid pouring the product into the public drainage. If the product reaches a river course or a sewer, or it has contaminated the soil or vegetation, warn the Authorities. Collect it in plastic containers and eliminate it in appropriate places.

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
Refer to sections 8 and 13 of SDS.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Handling: Take measures to avoid splashing in the eyes.

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. Do not smoke in storage zones. 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 25ºC. Avoid freezing.

7.3. Specific end use(s)
Antiseptic for healthy skin. For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Threshold Limit Value (TLV) of Isopropyl alcohol: The ACGIH recommends a TWA of 400 ppm (980 mg/m³) and a STEL of 500 ppm (1225 mg/m³).

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: Non specific protection equipment is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Aspect: Transparent orange liquid
Odour: characteristic (alcohol)
PH: 6-8 (20 ºC)
Solubility in water: 100% soluble (20 ºC)
Density: 0.60 – 1.00 g/cc (20 ºC)
Flammability: Flammable
Closed flash point: 21ºC

9.2. Other information
Data for Isopropyl Alcohol
Flash Point: 12 ºC
Relative density of vapour: > 1.0

10. STABILITY AND REACTIVITY
10.1. Reactivity: Keep away from heat and direct sunlight. Keep away from direct 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-compatibile 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

Acute toxicity:
Oral route: Not harmful by oral ingestion. DL₅₀ (oral route) > 2000 mg/kg

Inhalation route:
Isopropyl alcohol: The ACGIH recommends a TLV-TWA of 400 ppm (980 mg/m³) and a STEL of 500 ppm (1225 mg/m³).

These values are not exceeded during the use of the product, according to the indicated use of the product.

Through skin and/or eyes:
*Skin irritation: Non irritating.
*Eye irritation: Irritating to eyes.
*Skin sensitisation: It does not cause hypersensitisation.

Corrosiveness: Not corrosive.
Carcinogenicity: Not carcinogenic
Mutagenicity: Not mutagenic
Toxicity for reproduction: Not toxic for reproduction

12. ECOLOGICAL INFORMATION

12.1. Toxicity:
In order to avoid human and environmental risks, follow the instructions for use.

12.2. Persistence and degradability
The product has powerful microbical action, hence it could affect the EDAR microbial flora.

12.3. Bioaccumulative potential
Not available.
12.4. Movility in soil
Not available

12.5. Results of PBT and vPvB assessment
This product is not identified as a PBT/vPvB substance

12.6. Other adverse effects
Harmful to aquatic organisms

Data for the ingredients
Isopropyl alcohol
- **Mobility:**
  - It is a hydrosoluble substance, which is expected to remain in water.
- **Persistence and degradability:**
  - Easily biodegradable, according to OECD standards.
  - Easily eliminated in a sewage treatment.
- **Bioaccumulation:**
  - A low acute toxicity is predicted for aquatic organisms.
  - No long-term effects are predicted for aquatic organisms.

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.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
It is recommended to package product surplus or waste resulting from normal use. Label it for identification purposes and seal it. Dirty, empty recipients should be handled in the same manner. The product may be taken to a controlled incineration site, always according to local regulations.

14. TRANSPORT INFORMATION

14.1. UN number
1993

14.2. UN proper shipping name
Flammable liquid, n.e.p. (contains isopropyl alcohol)

14.3. Transport hazard class(es)
Class 3

14.4. Packaging group
Group II

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
1.   MATERIAL SAFETY DATA SHEET (MSDS)

Product: Bactiseptic Orange

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**ADR Classification:**
- ONU number: 1993
- Class: 3
- Classification code: F1
- Packaging group: II
- Label: 3 (Flammable)
- Risk:30

**MDG Classification:**
- Class: 3

**Air (IATA/ICAO):**
ONU 1993 – Flammable liquid n.e.p.
Label: Flammable liquid
Class 3
Special provisions A3
Packaging group II
Passenger aircraft: Packaging instructions 355/Y344
Max. net quantity 60L/10L
Cargo aircraft: Packaging instructions 366
Max. net quantity 220L

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: nº 1907/2006, 453/2010 and 830/2015.
**European legislation:** Regulation (EC) nº 1272/2008

15.2. Chemical safety assessment: not required

16. OTHER INFORMATION

**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:**
- H225: Highly flammable liquid and vapour.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness
- H400: Very toxic to aquatic life.

**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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