SAFETY DATA SHEET


CHLORHEXIDINE GLUCONATE MOUTHWASH PEPPERMINT

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

1.1 Product identifier

Product name : CHLORHEXIDINE GLUCONATE MOUTHWASH PEPPERMINT
Product code : 110827E
Product use : Skin Care
               Medicinal product
               Product is for professional use only

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Uses advised against</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drug, not applicable</td>
<td>None known.</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Distributor/ Importer : Ecolab Ltd.
                                      David Murray John Building
                                      UK-SN1 1NH Swindon, Wiltshire
                                      England
                                      Tel +44 (0)1793 511221
                                      Fax +44 (0)1793 618552
                                      CCS@ecolab.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Manufacturer/ Distributor/ Importer

<table>
<thead>
<tr>
<th>Telephone number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0870 600 6266</td>
<td>(This service is only available to health professionals)</td>
</tr>
<tr>
<td>01793 511221</td>
<td>Food &amp; Beverage, Institutional, Agri - 01793 548888</td>
</tr>
<tr>
<td></td>
<td>Healthcare Leeds - 0113 2322480</td>
</tr>
<tr>
<td></td>
<td>Healthcare Swansea - 01252 717616</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Risk phrases : Although the product is not classified as dangerous, we recommend you to take the safety advice given below into account.
               This product is not classified according to EU legislation.

2.3 Other hazards

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SECTION 2: Hazards identification

Other hazards which do not result in classification : Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5</td>
<td>5-10</td>
<td>F; R11</td>
<td>Flam. Liq. 2, H225</td>
<td>See section 16 for the full text of the R-phrases declared above</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

SECTION 4: First aid measures

4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Over-exposure signs/symptoms**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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SECTION 4: First aid measures

Skin contact:
No specific data.

Ingestion:
No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician:
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media:
None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:
In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products:
Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

5.3 Advice for firefighters

Special precautions for fire-fighters:
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:
Fire-fighters should wear proper protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders:
If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions:
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill:
Dilute with plenty of water. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill:
Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

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SECTION 6: Accidental release measures

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities
Store between the following temperatures: 0 to 25°C (32 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations
Not applicable.

Industrial sector specific solutions
Not applicable.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 1920 mg/m³ 8 hour(s). TWA: 1000 ppm 8 hour(s).</td>
</tr>
</tbody>
</table>

Derived effect levels
No DNELs available.

Predicted effect concentrations
No PNECs available.

8.2 Exposure controls

Appropriate engineering controls
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection (EN 166): No special recommendations.

Skin protection
Hand protection (EN 374): No special recommendations.

Body protection (EN 14605): No special recommendations.

Other skin protection: No special recommendations.

Respiratory protection (EN 143, 14387): No special recommendations.

Thermal hazards: No special recommendations.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
- Physical state: Liquid.
- Colour: Colourless.
- Odour: Aromatic

Odour threshold: Not applicable and/or not determined for the mixture.

pH: 5 to 7 [Conc. (% w/w): 100%]

Melting point/freezing point: Not applicable and/or not determined for the mixture.

Initial boiling point and boiling range: Not applicable and/or not determined for the mixture.

Flash point: 50 °C (Closed cup)
Product does not support combustion.

Evaporation rate: Not applicable and/or not determined for the mixture.

Flammability (solid, gas)
- Burning time: Not applicable and/or not determined for the mixture.
- Burning rate: Not applicable and/or not determined for the mixture.

Upper/lower flammability or explosive limits: Not applicable and/or not determined for the mixture.

Vapour pressure: Not applicable and/or not determined for the mixture.

Vapour density: Not applicable and/or not determined for the mixture.

Relative density: 1.01 to 1.04

Solubility(ies): Easily soluble in the following materials: cold water.

Partition coefficient: n-octanol/water: Not applicable and/or not determined for the mixture.

Auto-ignition temperature: Not applicable and/or not determined for the mixture.

Decomposition temperature: Not applicable and/or not determined for the mixture.

Viscosity: Not applicable and/or not determined for the mixture.

Explosive properties: Not applicable.
SECTION 9: Physical and chemical properties

Oxidising properties : None.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Conclusion/Summary : No known significant effects or critical hazards.

Irritation/Corrosion
Conclusion/Summary : No known significant effects or critical hazards.

Sensitiser
Conclusion/Summary : No known significant effects or critical hazards.

Mutagenicity
Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity
Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity
Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity
Conclusion/Summary : No known significant effects or critical hazards.

Information on the likely routes of exposure

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure**

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

**Long term exposure**

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

**Potential chronic health effects**

Conclusion/Summary: No known significant effects or critical hazards.

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information: No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary: No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary: The ecological evaluation of the product is based on data from the raw material and/or comparable substances. The total of the organic components contained in the product achieve > 60% BOD/COD or CO2 liberation, or > 70% DOC reduction in tests for ease of degradability - threshold values for 'readily degradable' (e.g. to OECD method 301).

12.3 Bioaccumulative potential

Conclusion/Summary: Not determined for the mixture.

12.4 Mobility in soil

Soil/water partition coefficient (K_{ow}) : Not determined for the mixture.

Mobility : Not determined for the mixture.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

European waste catalogue (EWC)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 01 30</td>
<td>detergents other than those mentioned in 20 01 29</td>
</tr>
</tbody>
</table>

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled.

Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th></th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td>None.</td>
<td>None.</td>
<td>None.</td>
<td>None.</td>
</tr>
</tbody>
</table>

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

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SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

National regulations

United Kingdom (UK)

The Chemicals (Hazard Information and Packaging for Supply) Regulations.
The Control of Substances Hazardous to Health Regulations.
Health and Safety at Work Act.

15.2 Chemical Safety Assessment

Not applicable.

SECTION 16: Other information

Abbreviations and acronyms

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DPD = Dangerous Preparations Directive [1999/45/EC]
EC = European Commission
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
OEL = Occupational Exposure Limit
PBt = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH # = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Full text of classifications [CLP/GHS]</th>
<th>Eye Irrit. 2, H319</th>
<th>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full text of abbreviated R phrases</td>
<td>R11- Highly flammable.</td>
<td></td>
</tr>
<tr>
<td>Full text of classifications [DSD/DPD]</td>
<td>F - Highly flammable</td>
<td></td>
</tr>
</tbody>
</table>

| Date of printing                      | 1/12/2012.         |
| Date of issue/ Date of revision       | 1/12/2012.         |
| Date of previous issue                | No previous validation. |
| Version                               | 1 |

**Notice to reader**

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