

7/14/17



# SAFETY DATA SHEET

Issuing date 13-Jun-2012

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Version 001

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

### 1.1 Product identifier

Product name HibiClens

Hibiclens solution  
H.D

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

Recommended Use Antimicrobial agent

Uses advised against No information available

### 1.3 Details of the supplier of the safety data sheet

Company Information Mölnlycke Health Care  
2 Omega Drive  
Irlam  
M44 5BJ  
United Kingdom

Telephone +44 (0) 161 777 2600

Fax +44 (0) 161 777 2601

For further information, please contact:

E-mail Address Antiseptics.UK@molnlycke.com

### 1.4 Emergency telephone

Emergency telephone +44 (0) 161 621 2121 (9am-5pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi; R36 N; R50/53

### 2.2 Label elements



Xi - Irritant

N - Dangerous for the environment

### R-phrases

R36 - Irritating to eyes

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## HibiClens

### S-phrases

S 2 - Keep out of the reach of children

S29 - Do not empty into drains

S61 - Avoid release to the environment. Refer to special instructions/ Safety data sheets

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

### 2.3 Other hazards

May cause skin irritation. May cause irritation of respiratory tract.

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures.

| Chemical Name                | EC-No     | CAS-No     | w/w% | Classification<br>(67/548/EEC) | Classification<br>(EU Reg. 1272/2008)                                                         | REACH<br>Registration<br>Number |
|------------------------------|-----------|------------|------|--------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|
| Chlorhexidine<br>digluconate | 242-354-0 | 18472-51-0 | 1-4  | Xi; R41<br>N; R50/53           | Eye Dam. 1 (H318)<br>Acute Aquatic 1 (H400)<br>Chronic Aquatic 1 (H410)<br>GHS05, GHS09 (Dgr) | no data available               |
| Isopropyl alcohol            | 200-661-7 | 67-63-0    | 1-4  | F; R11<br>Xi; R36<br>R67       | Eye Irrit. 2 (H319) STOT<br>SE 3 (H336) Flam. Liq. 2<br>(H225) GHS02, GHS07<br>(Dgr)          | no data available               |

For the full text of R-phrases and H-Statements see Section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|              |                                                                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop obtain medical attention.                                                          |
| Skin contact | Wash off immediately with plenty of water. If symptoms develop obtain medical attention.                                                                                                        |
| Ingestion    | Wash out mouth with water and give 100 - 200 ml of water to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms develop obtain medical attention. |
| Inhalation   | Remove to fresh air and keep at a rest position. Administer oxygen if breathing is difficult and you are trained. If symptoms develop obtain medical attention.                                 |

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

|               |                                                                                                                                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Symptoms | Irritating to eyes.<br><br>Prolonged skin contact may cause skin irritation. Inhalation of vapors in high concentration may cause irritation of respiratory system: Headache, dizziness and loss of coordination. |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                    |                        |
|--------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|--------------------|------------------------|

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable Extinguishing Media**

Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Alcohol-resistant foam.

#### **Extinguishing media which shall not be used for safety reasons**

Do not use water jet.

### **5.2 Special hazards arising from the substance or mixture**

Combustible material: If overheated, the product may release flammable vapours that can form explosive gas mixtures. Runoff may pollute waterways. Thermal decomposition can lead to release of irritating and toxic gases and vapours: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Ammonia.

### **5.3 Advice for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with the skin and the eyes. Avoid breathing vapours or mists. Ensure adequate ventilation. Use personal protective equipment.

### **6.2 Environmental precautions**

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

### **6.3 Methods and materials for containment and cleaning up**

Dike to collect large liquid spills. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Use only non-sparking tools. Flush spillage area with plenty of water.

### **6.4 Reference to other sections**

See section 8. Waste Disposal Methods: See also section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Wash thoroughly after handling. Use only in well-ventilated areas. Wear personal protective equipment.

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

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Store at room temperature.

Store separately from incompatible materials: Oxidising agents. Anionic compounds.

### **7.3 Specific end use(s)**

Antimicrobial agent.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

| Chemical Name      | Isopropyl alcohol<br>67-63-0                                                                                    |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| The United Kingdom | STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup><br>TWA: 400 ppm TWA: 999 mg/m <sup>3</sup>                           |
| France             | VLCT: 400 ppm VLCT: 980 mg/m <sup>3</sup>                                                                       |
| Spain              | VLA-EC: 400 ppm VLA-EC: 1000 mg/m <sup>3</sup><br>VLA-ED: 200 ppm VLA-ED: 500 mg/m <sup>3</sup>                 |
| Germany            | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Ceiling / Peak: 400 ppm<br>Ceiling / Peak: 1000 mg/m <sup>3</sup> |
| Portugal           | STEL: 400 ppm<br>TWA: 200 ppm                                                                                   |
| Finland            | TWA: 200 ppm TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm STEL: 620 mg/m <sup>3</sup>                            |
| Denmark            | TWA: 200 ppm TWA: 490 mg/m <sup>3</sup>                                                                         |
| Austria            | STEL 800 ppm STEL 2000 mg/m <sup>3</sup><br>MAK: 200 ppm MAK: 500 mg/m <sup>3</sup>                             |
| Switzerland        | STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup><br>MAK: 200 ppm MAK: 500 mg/m <sup>3</sup>                           |
| Poland             | NDSch: 1200 mg/m <sup>3</sup><br>NDS: 900 mg/m <sup>3</sup><br>Skin                                             |
| Norway             | TWA: 100 ppm TWA: 245 mg/m <sup>3</sup><br>STEL: 150 ppm STEL: 306.25 mg/m <sup>3</sup>                         |
| Ireland            | TWA: 200 ppm<br>STEL: 400 ppm<br>Skin                                                                           |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2 Exposure controls**

**Appropriate engineering controls** Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

**Personal protective equipment****Eye Protection**

Safety glasses with side-shields (EN 166).

**Hand Protection**

Protective gloves (EN 374).

**Skin and body protection**

Wear suitable protective clothing; Protective shoes or boots.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment; (BS EN 14387:2004+A1).

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls**

Avoid release to the environment. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                              |                          |                          |
|------------------------------|--------------------------|--------------------------|
| Physical state               | Liquid                   |                          |
| Appearance                   | Clear                    |                          |
| Odour                        | Fragrance                |                          |
| Colour                       | Pink                     |                          |
| Odor Threshold               | No information available |                          |
| <b>Property</b>              | <b>Values</b>            | <b>Remarks • Methods</b> |
| pH                           | 5 - 6.5                  |                          |
| Melting/freezing point       |                          | No information available |
| Freezing Point               |                          | No information available |
| Boiling point/boiling range  |                          | No information available |
| Flash Point                  | 64.4 °C / 148 °F         |                          |
| Evaporation rate             |                          | No information available |
| Flammability (solid, gas)    |                          | No information available |
| Flammability Limits in Air   |                          | isopropamol              |
| upper flammability limit     | 12                       |                          |
| lower flammability limit     | 2                        |                          |
| Vapour pressure              |                          | No information available |
| Vapour density               |                          | No information available |
| Relative density             | 1.06                     |                          |
| Water solubility             |                          | Miscible                 |
| Solubility in other solvents |                          | No information available |
| Partition coefficient:       |                          | No information available |
| n-octanol/water              |                          |                          |
| Auto-ignition temperature    |                          | No information available |
| Decomposition temperature    |                          | No information available |
| Viscosity, kinematic         |                          | No information available |
| Viscosity, dynamic           |                          | No information available |
| Explosive properties         | Not explosive            |                          |
| Oxidizing properties         | Not applicable           |                          |

**9.2 Other information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular Weight | No information available |
| VOC Content(%)   | No information available |
| Density          | No information available |
| Bulk Density     | No information available |

**SECTION 10: Stability and reactivity****10.1 Reactivity**

None known.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

High temperatures.

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### 10.5 Incompatible materials

Oxidizing agents. Anionic compounds.

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapours: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Ammonia.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Chemical Name             | LD50 Oral        | LD50 Dermal           | LC50 Inhalation |
|---------------------------|------------------|-----------------------|-----------------|
| Chlorhexidine digluconate | > 2 g/kg ( Rat ) | > 5000 mg/kg (Rabbit) |                 |

**Skin corrosion/irritation** Repeated or prolonged contact may cause irritation.

**Serious eye damage/irritation** Irritating to eyes.

**Respiratory or skin sensitisation** Not sensitising.

**Mutagenicity** Not classified.

**Carcinogenicity** Not classified.

| Chemical Name     | European Union | IARC               |
|-------------------|----------------|--------------------|
| Isopropyl alcohol |                | Group 1<br>Group 3 |

**Reproductive toxicity** Not classified.

**STOT - Single exposure** Not classified.

**STOT - Repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**Other information** No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name             | Toxicity to algae                                                                                         | Toxicity to fish                                                                                                                                                         | Toxicity to daphnia and other aquatic invertebrates                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Isopropyl alcohol         | >1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 >1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through >1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50 | 13299: 48 h <i>Daphnia magna</i> mg/L EC50                                              |
| Chlorhexidine digluconate | ErC10: 0.03 mg/l 72 h <i>scenedesmus subspicatus</i>                                                      | LC50: 2.08 mg/l 96h <i>Brachydanio rerio</i>                                                                                                                             | EC50: 0.087 mg/l 48h <i>Daphnia magna</i><br>NOEC: 0.0206 mg/l 21d <i>Daphnia magna</i> |

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### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

| Chemical Name     | log Pow |
|-------------------|---------|
| Isopropyl alcohol | 0.05    |

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

| Chemical Name             | Toxicity to microorganisms       |
|---------------------------|----------------------------------|
| Chlorhexidine digluconate | COD: 219000 mg/l<br>BOD5: 0 mg/l |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

|                                                                   | ADR/RID/ADN                                               | ICAO/IATA                                                 | IMDG / IMO                                                |
|-------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
| 14.1 UN Number                                                    | 3082                                                      | 3082                                                      | 3082                                                      |
| 14.2 UN proper shipping name                                      | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. |
| 14.3 Transport hazard class(es)                                   | 9                                                         | 9                                                         | 9                                                         |
| 14.4 Packing group                                                | III                                                       | III                                                       | III                                                       |
| 14.5 Environmental Hazards                                        | Marine pollutant                                          | Marine pollutant                                          | Marine pollutant                                          |
| 14.6 Special precautions for user                                 | Avoid release to the environment                          |                                                           |                                                           |
| 14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code |                                                           |                                                           |                                                           |

## **SECTION 15: Regulatory information**

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC. This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical Safety Assessment**

Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

### **Full text of R-phrases referred to under sections 2 and 3**

R11 - Highly flammable

R36 - Irritating to eyes

R41 - Risk of serious damage to eyes

R67 - Vapours may cause drowsiness and dizziness

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### **Full text of H-Statements referred to under sections 2 and 3**

H225 - Highly flammable liquid and vapor

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**Issuing Date** 13-Jun-2012

**Revision Note** This SDS was updated according to regulation (EU) No 453/2010.

### **Disclaimer**

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.