

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

1.1. Product identifier

Product form : Mixture
Product name : Hibi Liquid Hand Rub+

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

1.2.1. Relevant identified uses

Main use category : Surgical hand disinfection/hygienic hand disinfection

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Mölnlycke Health Care
Medlock Street, Oldham
OL1 3HS - United Kingdom
T +44 (0) 161 621 3900 - F +44 (0) 161 621 3988
Antiseptics.UK@molnlycke.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Eye Irrit. 2 H319
STOT SE 3 H336
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36
N; R51/53
R10
R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger
Hazardous ingredients : Chlorhexidine digluconate, Propan-2-ol
Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P261 - Avoid breathing vapours
P273 - Avoid release to the environment
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|---------------------------|--|-----------|--|
| Propan-2-ol | (CAS No.) 67-63-0 (EC No.) 200-661-7 (EC index No.) 603-117-00-0 | 60 - 80 | F; R11 Xi; R36 R67 |
| Chlorhexidine digluconate | (CAS No.) 18472-51-0 (EC No.) 242-354-0 | 0.5 - 0.7 | Xi; R41 N; R50/53 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------|--|-----------|--|
| Propan-2-ol | (CAS No.) 67-63-0 (EC No.) 200-661-7 (EC index No.) 603-117-00-0 | 60 - 80 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Chlorhexidine digluconate | (CAS No.) 18472-51-0 (EC No.) 242-354-0 | 0.5 - 0.7 | Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove to fresh air, keep the patient warm and at rest. If symptoms develop obtain medical attention. |
| First-aid measures after skin contact | : Wash with plenty of soap and water. If symptoms develop obtain medical attention. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop obtain medical attention. |
| First-aid measures after ingestion | : Rinse mouth. Give 100 - 200 ml of water to drink. Do NOT induce vomiting. Do not give an unconscious person anything to drink. If symptoms develop obtain medical attention. |

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

| | |
|-------------------------------------|--------------------------------------|
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after eye contact | : Causes eye irritation. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : None. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Flammable liquid and vapour. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.

Emergency procedures : Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid inhalation of vapours.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wash spill area with soapy water.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with eyes. Avoid inhalation of vapours.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Strong oxidizing agent. Keep container closed when not in use. Protect material from direct sunlight. Avoid ignition sources.

7.3. Specific end use(s)

Surgical hand disinfection/hygienic hand disinfection.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Propan-2-ol (67-63-0) | | |
|-----------------------|-------------------------------|------------------------|
| United Kingdom | Local name | Propan-2-ol |
| United Kingdom | WEL TWA (mg/m ³) | 999 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 400 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 1250 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 500 ppm |

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 : Avoid all unnecessary exposure.

Hand protection : Standard EN 374 - Protective gloves against chemicals.

Eye protection : Chemical goggles or safety glasses. Standard EN 166 - Personal eye-protection.

Skin and body protection : Use chemically protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Thermal hazard protection : Not required for normal conditions of use.

Environmental exposure controls : Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Colourless.

Odour : Alcohol.

Odour threshold : No data available

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| | |
|--|--|
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : > 79 °C |
| Flash point | : 21 °C (closed cup) |
| Auto-ignition temperature | : > 400 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 0.82 - 0.91 |
| Solubility | : Miscible with water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Vapours may form explosive mixture with air. |
| Oxidising properties | : Not oxidising. |
| Explosive limits | : 3.3 - 24.5 vol % |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Oxidizing agents. Acids. Strong alkalis.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|----------------|--|
| Acute toxicity | : Not classified |
| | Based on available data, the classification criteria are not met |

| Propan-2-ol (67-63-0) | |
|----------------------------|--------------|
| LD50 oral rat | 4396 mg/kg |
| LD50 dermal rat | 12800 mg/kg |
| LD50 dermal rabbit | 12870 mg/kg |
| LC50 inhalation rat (mg/l) | 72.6 mg/l/4h |

| Chlorhexidine digluconate (18472-51-0) | |
|--|--------------|
| LD50 oral rat | > 2 g/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified |
| | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| | Based on available data, the classification criteria are not met |

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| | |
|------------------------|--|
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified Based on available data, the classification criteria are not met |

| Propan-2-ol (67-63-0) | |
|-----------------------|--------------|
| | IARC group : |
| | 3 |

| | |
|---|--|
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified Based on available data, the classification criteria are not met |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|--|
| Ecology - general | : Toxic to aquatic life with long lasting effects. |
|-------------------|--|

| Propan-2-ol (67-63-0) | |
|--------------------------------|---|
| LC50 fish | 11130 mg/l 96 h Pimephales promelas |
| LC50 other aquatic organisms | 9640 mg/l static - 96 h Pimephales promelas |
| EC50 Daphnia | 13299 mg/l 48 h Daphnia magna |
| EC50 Daphnia 2 | > 1000 mg/l 72 h Desmodesmus subspicatus |
| EC50 other aquatic organisms 2 | > 1000 mg/l 96 h Desmodesmus subspicatus |

| Chlorhexidine digluconate (18472-51-0) | |
|--|---------------------------------|
| LC50 fish | 2.08 mg/l 96h Brachydanio rerio |
| EC50 Daphnia | 0.087 mg/l 48h Daphnia magna |
| NOEC chronic crustacea | 0.0206 mg/l 21d Daphnia magna |

12.2. Persistence and degradability

| Hibi Liquid Hand Rub+ | |
|-------------------------------|---------------------------|
| Persistence and degradability | No information available. |

| Chlorhexidine digluconate (18472-51-0) | |
|--|-------------|
| Biochemical oxygen demand (BOD) | 0 mg/l 5 d |
| Chemical oxygen demand (COD) | 219000 mg/l |

12.3. Bioaccumulative potential

| Hibi Liquid Hand Rub+ | |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Low bioaccumulation potential. |

| Propan-2-ol (67-63-0) | |
|-----------------------|------|
| Log Pow | 0.05 |

12.4. Mobility in soil

| Hibi Liquid Hand Rub+ | |
|-----------------------|---------------------------|
| Ecology - soil | No information available. |

12.5. Results of PBT and vPvB assessment

| Hibi Liquid Hand Rub+ | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6. Other adverse effects

| |
|------------------------------------|
| : Avoid release to the environment |
|------------------------------------|

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

- UN-No. (ADR) : 1993
- UN-No.(IATA) : 1993
- UN-No. (IMDG) : 1993

14.2. UN proper shipping name

- Proper Shipping Name (ADR/RID) : FLAMMABLE LIQUID, N.O.S.
- Proper Shipping Name (IATA) : ETHANOL (ETHYL ALCOHOL) / ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
- Proper Shipping Name (IMDG) : ETHANOL (ETHYL ALCOHOL) / ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
- :
- Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol(67-63-0)), 3, II

14.3. Transport hazard class(es)

- Class (ADR/RID) : 3
- Class (IATA) : 3
- Class (IMDG) : 3
- Hazard labels (ADR/RID) : 3



14.4. Packing group

- Packing group (ADR/RID) : II
- Packing group (IATA) : II
- Packing group (IMDG) : II

14.5. Environmental hazards

- Other information : Not classified.

14.6. Special precautions for user

- Special transport precautions : No special precautions required.

14.6.1. Overland transport

- Classification code (ADR) : F1
- Transport category (ADR) : 2

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| | |
|----------------------------|---|
| Data sources | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Abbreviations and acronyms | : ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route). ATE (Acute Toxicity Estimate). CAS (Chemical Abstracts Service) number. CLP (Classification, Labeling and Packaging). DNEL (Derived No effect Limit). EC (European Community). EC50 (Effective Concentration 50%). EN (European Norm). IARC (International Agency for Research on Cancer). IATA (International Air Transport Association). IBC (Intermediate Bulk Container). IMDG (International Maritime Dangerous Goods Code). IMO (International Maritime Organisation). LC50 (Lethal Concentration 50%). LD50 (Lethal Dose 50%). MAC (Maximal Allowed Concentration). O/W (Oil-in-Water (chemistry)). OECD (Organisation for Economic Co-operation and Development). PBT (Persistent, bioaccumulative and toxic). PMcc (Pensky-Martens Closed Cup test). PNEC (predicted no effect concentration). REACH (Registration, Evaluation and Authorisation of Chemicals). RID (Règlement concernant le transport international ferroviaire de marchandises). STEL (Short Term Exposure Limit). TWA (Time Weighted Average). UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods). vPvB (very persistent and very bioaccumulative). |
| Other information | : None. |

Full text of R-, H- and EUH-phrases:

| | |
|-------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| 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 |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |
| R10 | Flammable |
| R11 | Highly flammable |
| R36 | Irritating to eyes |
| R41 | Risk of serious damage to eyes |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R67 | Vapours may cause drowsiness and dizziness |
| F | Highly flammable |
| N | Dangerous for the environment |
| Xi | Irritant |

NCEC SDS EU (REACH ANNEX II)

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.