

| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 | Product identifier | | |
|-----|--|------|--|
| | Trade name | : | Chlorhexidine / Glycerine Formulation |
| | Other means of identification | : | Hibitane Plus (A3521) |
| 1.2 | Relevant identified uses of th | ne s | ubstance or mixture and uses advised against |
| | Use of the Sub- stance/Mixture | : | |
| | Recommended restrictions on use | : | Not applicable |
| 1.3 | Details of the supplier of the | saf | etv data sheet |
| | Company | : | MSD Kilsheelan Clonmel Tipperary, IE |
| | Telephone | : | 353-51-601000 |
| | E-mail address of person responsible for the SDS | : | EHSDATASTEWARD@msd.com |

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 Specific target organ toxicity - repeated exposure, Category 2 Long-term (chronic) aquatic hazard, Category 2 H319: Causes serious eye irritation.H373: May cause damage to organs through prolonged or repeated exposure.H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





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|--------------------------|------------------------------|---|---------------------------|-------|--|
| Signal word | | : | Warning | | |
| Haza | rd statements | : | H319 H373 | May | es serious eye irritation. cause damage to organs through prolonged peated exposure. |
| | | | H411 | | to aquatic life with long lasting effects. |
| Precautionary statements | | : | Prevention | : | |
| | | | P264 P273 P280 | Avoid | n skin thoroughly after handling. I release to the environment. r eye protection/ face protection. |
| | | | Response: | | |
| | | | P314 P337 + P31 | | nedical advice/ attention if you feel unwell. eye irritation persists: Get medical advice/ tion. |
| | | | P391 | Colle | ct spillage. |

Hazardous components which must be listed on the label:

Chlorhexidine

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| componenta | | | |
|---------------|---|--|--------------------------|
| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
| Chlorhexidine | 55-56-1 200-238-7 | Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT RE 2; H373 (Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 10 - < 20 |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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| | | | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | | | |
| Nony | lphenol, ethoxylated | 9016-45-9 | Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0.25 - < 1 | | |
| | | | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10 | | | |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|--------------------------------|------|---|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact | : | In case of contact, immediately flush skin with soap and plenty of water. Get medical attention if symptoms occur. |
| In case of eye contact | : | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |
| 4.2 Most important symptoms an | nd e | ffects, both acute and delayed |

Risks : Causes serious eye irritation. May cause damage to organs through prolonged or repeated



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| | | | exposure. | |
| 4.3 Indic | ation of any immediate | meo | lical attention and | d special treatment needed |
| Trea | atment | : | Treat symptomat | ically and supportively. |
| SECTIC | N 5: Firefighting meas | sur | es | |
| 5.1 Extir | nguishing media | | | |
| Suit | able extinguishing media | : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical | |
| Uns med | uitable extinguishing dia | : | None known. | |
| 5.2 Spec | cial hazards arising from | the | substance or mi | ixture |
| Spe figh | cific hazards during fire- ting | : | Exposure to com | bustion products may be a hazard to health. |
| Haz ucts | ardous combustion prod- | : | Carbon oxides | |
| 5.3 Advi | ce for firefighters | | | |
| | cial protective equipment irefighters | : | | e, wear self-contained breathing apparatus. tective equipment. |
| Spe ods | cific extinguishing meth- | : | cumstances and Use water spray | g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do |

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : | Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8). |
|-------------------------------|---|--|
| 6.2 Environmental precautions | | |
| Environmental precautions | : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. |

Local authorities should be advised if significant spillages



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| | | cannot be conta | ined. |
| 6.3 Metho | ds and material for o | containment and clear | ning up |
| Meth | ods for cleaning up | For large spills, ment to keep m be pumped, sto Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and | ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- al regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational requirements. |

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Technical measures | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. | | | |
|--|--|--|--|--|
| Local/Total ventilation | : Use only with adequate ventilation. | | | |
| Advice on safe handling | : Do not breathe mist or vapours. | | | |
| | Do not swallow. | | | |
| | Do not get in eyes. | | | |
| | Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. | | | |
| | Handle in accordance with good industrial hygiene and safety | | | |
| | practice, based on the results of the workplace exposure as- sessment | | | |
| | Take care to prevent spills, waste and minimize release to the environment. | | | |
| Hygiene measures | : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. | | | |
| | The effective operation of a facility should include review of engineering controls, proper personal protective equipment, | | | |
| | appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. | | | |
| 7.2 Conditions for safe storage, including any incompatibilities | | | | |

| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store in accordance with the particular national regulations. |
|---|---|---|
| Advice on common storage | : | Do not store with the following product types: Strong oxidizing agents |

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| | | Gases | |
| 7.3 Specific end use(s) Specific use(s) | | : No data availabl | e |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------|----------------|-------------------------------|--------------------|----------|
| Chlorhexidine | 55-56-1 | TWA | 40 µg/m3 (OEB 3) | Internal |
| | Further inform | ation: RSEN, DSEN | | |
| | | Wipe limit | 100 μg/100 cm2 | Internal |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name | End Use | Exposure routes | Potential health ef- | Value |
|----------------|-----------|-----------------|----------------------|-----------|
| | | | fects | |
| Glycerine | Workers | Inhalation | Long-term local ef- | 56 mg/m3 |
| | | | fects | _ |
| | Consumers | Ingestion | Long-term systemic | 229 mg/kg |
| | | | effects | bw/day |
| | Consumers | Inhalation | Long-term local ef- | 33 mg/m3 |
| | | | fects | Ū |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|-----------------|
| Glycerine | Fresh water | 0.885 mg/l |
| | Marine water | 0.0885 mg/l |
| | Intermittent use/release | 8.85 mg/l |
| | Sewage treatment plant | 1000 mg/l |
| | Fresh water sediment | 3.3 mg/kg dry |
| | | weight (d.w.) |
| | Marine sediment | 0.33 mg/kg dry |
| | | weight (d.w.) |
| | Soil | 0.141 mg/kg dry |
| | | weight (d.w.) |

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.



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| Pers | onal protective equipr | nent | | | | |
| Eye/face protection | | If the work er mists or aero Wear a faces | Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. | | | |
| Hand | d protection | | | | | |
| N | laterial | : Chemical-res | Chemical-resistant gloves | | | |
| | emarks and body protection | Additional bo task being pe posable suits | n or laboratory coat. dy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis-) to avoid exposed skin surfaces. ate degowning techniques to remove potentially | | | |
| · | Respiratory protection : Filter type : | | boal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection. nould conform to I.S. EN 14387 articulates and organic vapour type (A-P) | | | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | : | Aqueous solution |
|---|---|-------------------|
| Colour | : | dark blue |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |

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| | Flash point | | : | No data availabl | e |
| | Auto-ię | gnition temperature | : | No data available | e |
| | Decom | position temperature | : | No data available | e |
| | рН | | : | < 8.5 (20 °C) | |
| | Viscos Vis | ity cosity, kinematic | : | No data available | e |
| | | lity(ies) ter solubility | : | No data availabl | e e e e e e e e e e e e e e e e e e e |
| | | on coefficient: n- I/water | : | Not applicable | |
| | Vapou | r pressure | : | No data available | 9 |
| | Relativ | ve density | : | 1.145 - 1.155 (20 |) °C) |
| | Densit | У | : | No data availabl | 9 |
| | Relativ | ve vapour density | : | No data availabl | 9 |
| | | e characteristics ticle size | : | Not applicable | |
| 9.2 | | nformation | | | |
| | Explos | sives | : | Not explosive | |
| | Oxidizi | ing properties | : | The substance of | r mixture is not classified as oxidizing. |
| | Evapo | ration rate | : | No data available | e |
| | Molecu | ular weight | : | No data availabl | e |

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid



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| Coi | nditions to avoid | : 1 | None known. | |
| 10.5 Inc | ompatible materials | | | |
| Ma | terials to avoid | : (| Oxidizing agents | |
| | zardous decomposition p | | | |
| No | hazardous decomposition | produ | cts are known. | |
| SECTIO | ON 11: Toxicological in | form | ation | |
| 11 1 Inf | ormation on bazard class | 06.26 | defined in Rea | ulation (EC) No 1272/2008 |
| Info | prmation on likely routes of osure | : Ir S Ir | nhalation kin contact ngestion ye contact | |
| | ute toxicity classified based on availa | ble inf | formation. | |
| Pro | duct: | | | |
| Acı | ite oral toxicity | | cute toxicity estin lethod: Calculation | mate: > 2,000 mg/kg on method |
| Co | mponents: | | | |
| Ch | orhexidine: | | | |
| Acı | ite oral toxicity | : L | D50 Oral (Mouse | e): 1,260 mg/kg |
| | | L | D50 Oral (Rabbi | t): 1,100 mg/kg |
| | | L | D50 Oral (Rat): 2 | 2,000 mg/kg |
| | Ite toxicity (other routes of ninistration) | | D50 (Rat): 21 m pplication Route | |
| No | nylphenol, ethoxylated: | | | |
| | ite oral toxicity | : L | D50 (Rat): 500 - | 2,000 mg/kg |
| | n corrosion/irritation | ble inf | formation. | |
| Co | mponents: | | | |
| No | nylphenol, ethoxylated: | | | |
| Spe | ecies thod | : C | abbit DECD Test Guide lo skin irritation | line 404 |

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| | ous eye damage/eye es serious eye irritatio | | on | |
| | ponents: | | | |
| Chlo | rhexidine: | | | |
| Spec Resu | | : | Rabbit Mild eye irritation | |
| Nony | /lphenol, ethoxylated | 1 : | | |
| Spec Meth Resu | od | : | Rabbit OECD Test Guid Irreversible effect | |
| Resp | viratory or skin sensi | itisatio | on | |

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Nonylphenol, ethoxylated:

| s |
|---|
| S |

Germ cell mutagenicity

Not classified based on available information.

Components:

Chlorhexidine:

| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
|-----------------------|---|
| | Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative |
| Genotoxicity in vivo | : Test Type: dominant lethal test Species: Mouse Result: negative |
| | Test Type: Cytogenetic assay Species: Hamster Result: negative |

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| | Nonylphenol, ethoxylated: Genotoxicity in vitro | | Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials | |
| | nogenicity assified based on availa | able | information. | |
| Comp | oonents: | | | |
| Speci Applic | cation Route | : | Rat oral (drinking wa | ter) |
| | | : | 2 Years daily 38 mg/kg body w negative | reight |
| Expos | cation Route sure time ency of Treatment EL | | Rat oral (drinking wa 2 Years daily 158 mg/kg body negative | |
| - | oductive toxicity assified based on availa | able | information. | |
| <u>Comp</u> | oonents: | | | |
| | hexidine: s on fertility | : | Species: Rat Fertility: NOAEL: | 100 mg/kg body weight |
| Effect ment | s on foetal develop- | : | Species: Rat Developmental T | oxicity: NOAEL: 300 mg/kg body weight |
| | | | Species: Rabbit Developmental T | oxicity: NOAEL: 40 mg/kg body weight |

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Chlorhexidine:

| Assessment | • | Liver May cause damage to organs through prolonged or repeated |
|------------|---|---|
| 11 | | exposure. |

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Repeated dose toxicity

Components:

Chlorhexidine:

| Species NOAEL Application Route Exposure time | : Rat : 158 mg/k : Oral : 2 yr | g |
|---|--|---|
| Species LOAEL Application Route Exposure time Target Organs | : Rabbit : 250 mg/k : Dermal : 13 Weeks : Skin, Live | S |

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

Chlorhexidine:

| | Symptoms: Headache Target Organs: Lungs Symptoms: Asthmatic appearance, bronchospasm, discomfort in the chest, upper respiratory tract infection |
|-----------|--|
| Ingestion | : Target Organs: Gastrointestinal tract Symptoms: Gastrointestinal disturbance, Gastrointestinal tract damage |

SECTION 12: Ecological information

12.1 Toxicity

Components:

Chlorhexidine:

Toxicity to fish

(Fish): 2.088 mg/l

:

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| | | | Exposure time: 96 Method: ECOSAF ships) | 6 h R (Ecological Structure Activity Relation- |
| | ity to daphnia and other tic invertebrates | : | Exposure time: 48 | agna (Water flea)): 0.222 mg/l 3 h R (Ecological Structure Activity Relation- |
| Toxic plants | ity to algae/aquatic s | : | mg/l End point: Growth Exposure time: 96 | |
| M-Fa icity) | ctor (Acute aquatic tox- | : | 1 | |
| M-Fa toxicit | ctor (Chronic aquatic ty) | : | 1 | |
| | Iphenol, ethoxylated: ity to fish | : | Exposure time: 96 | s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials |
| | ity to daphnia and other tic invertebrates | : | Exposure time: 48 | nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials |
| Toxic plants | ity to algae/aquatic s | : | mg/l Exposure time: 72 Method: OECD T | |
| | | | Exposure time: 72 Method: OECD T | |
| M-Fa icity) | ctor (Acute aquatic tox- | : | 1 | |
| Toxic icity) | ity to fish (Chronic tox- | : | | |
| | ity to daphnia and other tic invertebrates (Chron- icity) | : | Exposure time: 28 | |



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| I | | | Remarks: Based | l on data from similar materials |
| M-Fa toxici | ctor (Chronic aquatic ty) | : | 10 | |
| 12.2 Pers | istence and degradabi | lity | | |
| Com | ponents: | | | |
| | rhexidine: egradability | : | Remarks: Not in | herently biodegradable. |
| Nony | Iphenol, ethoxylated: | | | |
| Biode | egradability | : | | ily biodegradable. I on data from similar materials |
| 12.3 Bioa | ccumulative potential | | | |
| Com | ponents: | | | |
| Partit | rhexidine: ion coefficient: n- | : | log Pow: 4.85 | |
| | ol/water | | | |
| Partit | ion coefficient: n- iol/water | : | log Pow: 4.48 | |
| | i lity in soil ata available | | | |
| 12.5 Resu | Ilts of PBT and vPvB a | sse | ssment | |
| Prod | uct: | | | |
| Asse | ssment | : | to be either pers | nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of |
| 12.6 Endo | ocrine disrupting prope | ertie | S | |
| Prod | | | | |
| | ssment | : | have endocrine of ing to REACH A | nixture contains components considered to disrupting properties for environment, accord- rticle 57(f), Commission Regulation (EU) nmission Delegated Regulation (EU) |
| Com | ponents: | | | |
| | uphenol, ethoxylated: | | | |
| - | ssment | : | The substance is | s considered to have endocrine disrupting |
| | | | 14 / 20 | |

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| | | properties accor ment. | rding to REACH Article 57(f) for the environ- |
| | r adverse effects | | |

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Product | Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. |
|------------------------|---|
| Contaminated packaging | Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |

SECTION 14: Transport information

14.1 UN number or ID number

| ADN | : | UN 3082 |
|----------------------------------|---|---|
| ADR | : | UN 3082 |
| RID | : | UN 3082 |
| IMDG | : | UN 3082 |
| ΙΑΤΑ | : | UN 3082 |
| 14.2 UN proper shipping name | | |
| ADN | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine) |
| ADR | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine) |
| RID | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine) |
| ΙΑΤΑ | : | Environmentally hazardous substance, liquid, n.o.s. (Chlorhexidine) |
| 1/1 3 Transport bazard class(es) | | |

14.3 Transport hazard class(es)

Subsidiary risks

Class

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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| ADN | | : | 9 | |
| ADR | | : | 9 | |
| RID | | : | 9 | |
| IMDO | 3 | : | 9 | |
| IATA | | : | 9 | |
| | ing group | • | | |
| ADN | | | | |
| Pack Class | ing group sification Code rd Identification Number Is | : | III M6 90 9 | |
| ADR | | | | |
| Class Haza Labe | ing group sification Code rd Identification Number Is el restriction code | : | III M6 90 9 (-) | |
| Class | ing group sification Code rd Identification Number Is | : | III M6 90 9 | |
| Labe | ing group | : | III 9 F-A, S-F | |
| Pack aircra Pack | ing instruction (LQ) | : | 964 Y964 | |
| Pack Labe | ing group Is | : | III Miscellaneous | |
| Pack | (Passenger) ing instruction (passen- ircraft) | : | 964 | |
| Pack | ing instruction (LQ) ing group | : | Y964 III Miscellaneous | |
| | ronmental hazards | - | | |
| ADN | | | | |
| | onmentally hazardous | : | yes | |
| | onmentally hazardous | : | yes | |
| RID | | | | |



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|-------------------|--|--|--|
| Env | ironmentally hazardous | : yes | |
| IMD Mar | I G ine pollutant | : yes | |
| | A (Passenger) ironmentally hazardous | : yes | |
| | A (Cargo) ironmentally hazardous | : yes | |

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on | : | Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 |
|---|---|---|
| the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | | Number on list 46a.: Nonylphenol, ethoxylated |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | | Number on list 46b: Nonylphenol, ethoxylated |
| | | Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not. |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Nonylphenol, ethoxylated |
| Regulation (EC) on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast) | : | Not applicable |
| Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import | : | Nonylphenol, ethoxylated |



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|------------------------------|--|---|---|---------------------|
| REA0 (Anne Seve | ex XIV) so III: Directive 2012/ ⁻ | es subject to authorisatio 18/EU of the European F rolving dangerous substa | Parliament and of the Coun | |
| E2 | | ENVIRONMENT HAZARDS | Quantity 1 | Quantity 2 500 t |
| Take regul | ations, where applicat | ole. | of young people at work or | |
| AICS | • • | : not determined | the following inventories | 5: |
| DSL | | : not determined | | |
| IECS | С | : not determined | | |
| Chemic ECTION | nical safety assessn al Safety Assessment N 16: Other informa r information | has not been carried ou ation : Items where cha | nt. Inges have been made to t In the body of this documen | |
| Full t | ext of H-Statements | | | |
| H302 H318 | } | : Harmful if swallo : Causes serious : Causes serious | eye damage. eye irritation. | |
| H319 H373 H400 H410 | • | exposure. : Very toxic to aqu | age to organs through prole latic life. latic life with long lasting ef | |
| H373 H400 H410 | • | exposure. : Very toxic to aqu : Very toxic to aqu | latic life. | |

Eye Dam.:Serious eye damageEye Irrit.:Eye irritation

STOT RE

: Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard



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of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Sources of key data used to | : | Internal technical data, data from raw material SDSs, OECD |
|----------------------------------|---|--|
| compile the Safety Data Sheet | | eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |
| | | |

| Classification of the | Classification procedure: | |
|-----------------------|---------------------------|--------------------|
| Eye Irrit. 2 | H319 | Calculation method |
| STOT RE 2 | H373 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Chlorhexidine / Glycerine Formulation

Version Revision Date: 4.0 06.09.2024

SDS Number: 10829228-00008 Date of last issue: 06.04.2024 Date of first issue: 10.08.2022