

**Chlorhexidine (4.79%) Formulation**

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 06.09.2024  |
| 7.0     | 14.04.2025     | 10839975-00008 | Date of first issue: 25.08.2022 |

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**Section 1: Identification**

Product name : Chlorhexidine (4.79%) Formulation

Other means of identification : Hibitane (A000585)

**Manufacturer or supplier's details**

Company : MSD

Address : 33 Whakatiki Street - Private Bag 908  
Upper Hutt - New Zealand

Telephone : 0800 800 543

Emergency telephone number : 0800 764 766 (0800 POISON) 0800 243 622 (0800  
CHEMCALL)

E-mail address : EHSDATASTEWARD@msd.com

**Recommended use of the chemical and restrictions on use**

Recommended use : Veterinary product

Restrictions on use : Not applicable

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**Section 2: Hazard identification****GHS Classification**

Serious eye damage/eye irritation : Category 2

Specific target organ toxicity - repeated exposure : Category 2 (Liver)

Hazardous to the aquatic environment - chronic hazard : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.  
H373 May cause damage to organs (Liver) through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

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## Precautionary statements :

**Prevention:**

P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**Section 3: Composition/information on ingredients**

Substance / Mixture : Mixture

**Components**

| Chemical name            | CAS-No.   | Concentration (% w/w) |
|--------------------------|-----------|-----------------------|
| Chlorhexidine            | 55-56-1   | $\geq 2.5$ -< 10      |
| Nonylphenol, ethoxylated | 9016-45-9 | $\geq 1$ -< 2.5       |

**Section 4: First-aid measures**

|                         |   |                                                                                                                                                                    |
|-------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : | In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.             |
| If inhaled              | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                                                                                       |
| In case of skin contact | : | In case of contact, immediately flush skin with soap and plenty of water.<br>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.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention. |
| If swallowed            | : | If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water.                                            |
| Most important symptoms | : | Causes serious eye irritation.                                                                                                                                     |

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|                                     |   |                                                                                                                                                                             |
|-------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| and effects, both acute and delayed |   | May cause damage to organs through prolonged or repeated exposure.                                                                                                          |
| 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). |
| Notes to physician                  | : | Treat symptomatically and supportively.                                                                                                                                     |

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**Section 5: Fire-fighting measures**

|                                               |   |                                                                                                                                                                                                                                                 |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                      |
| Unsuitable extinguishing media                | : | None known.                                                                                                                                                                                                                                     |
| Specific hazards during fire-fighting         | : | Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products                 | : | Carbon oxides                                                                                                                                                                                                                                   |
| Specific extinguishing methods                | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |
| Hazchem Code                                  | : | 3Z                                                                                                                                                                                                                                              |

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**Section 6: Accidental release measures**

|                                                                     |   |                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).                                                                                                                                                           |
| Environmental precautions                                           | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up               | : | Soak up with inert absorbent material.<br>For large spills, provide dyking or other appropriate contain-                                                                                                                                                                                                       |

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ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

**Section 7: Handling and storage**

- |                             |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>Do not swallow.<br>Do not get in eyes.<br>Avoid prolonged or repeated contact with skin.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>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.<br>When using do not eat, drink or smoke.<br>Wash contaminated clothing before re-use.<br>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. |
| Conditions for safe storage | : | Keep in properly labelled containers.<br>Store in accordance with the particular national regulations.                                                                                                                                                                                                                                                                                                                                                                                                   |
| Materials to avoid          | : | Do not store with the following product types:<br>Strong oxidizing agents                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Section 8: Exposure controls/personal protection****Components with workplace control parameters**

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

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**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.

**Personal protective equipment**

**Respiratory protection** : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

**Filter type** : Particulates type

**Hand protection**

**Material** : Chemical-resistant gloves

**Remarks** : Consider double gloving.

**Eye protection** : 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.

**Skin and body protection** : Work uniform or laboratory coat.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Use appropriate degowning techniques to remove potentially contaminated clothing.

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**Section 9: Physical and chemical properties**

**Appearance** : Aqueous solution

**Colour** : blue

**Odour** : No data available

**Odour Threshold** : No data available

**pH** : 5.55 - 6.65 (20 °C)

**Melting point/freezing point** : No data available

**Initial boiling point and boiling range** : No data available

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|                                                  |   |                                                          |
|--------------------------------------------------|---|----------------------------------------------------------|
| Flash point                                      | : | No data available                                        |
| Evaporation rate                                 | : | 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                                        |
| Vapour pressure                                  | : | No data available                                        |
| Relative vapour density                          | : | No data available                                        |
| Relative density                                 | : | 1.010 - 1.020                                            |
| Density                                          | : | No data available                                        |
| Solubility(ies)                                  |   |                                                          |
| Water solubility                                 | : | No data available                                        |
| Partition coefficient: n-octanol/water           | : | Not applicable                                           |
| Auto-ignition temperature                        | : | No data available                                        |
| Decomposition temperature                        | : | No data available                                        |
| Viscosity                                        |   |                                                          |
| Viscosity, kinematic                             | : | No data available                                        |
| Explosive properties                             | : | Not explosive                                            |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Molecular weight                                 | : | No data available                                        |
| Particle characteristics                         |   |                                                          |
| Particle size                                    | : | Not applicable                                           |

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**Section 10: Stability and reactivity**

|                                    |   |                                         |
|------------------------------------|---|-----------------------------------------|
| Reactivity                         | : | Not classified as a reactivity hazard.  |
| Chemical stability                 | : | Stable under normal conditions.         |
| Possibility of hazardous reactions | : | Can react with strong oxidizing agents. |

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|                                  |   |                                                |
|----------------------------------|---|------------------------------------------------|
| Conditions to avoid              | : | None known.                                    |
| Incompatible materials           | : | Oxidizing agents                               |
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

**Section 11: Toxicological information**

|                 |   |                                                        |
|-----------------|---|--------------------------------------------------------|
| Exposure routes | : | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|-----------------|---|--------------------------------------------------------|

**Acute toxicity**

Not classified based on available information.

**Product:**

|                     |   |                                                                      |
|---------------------|---|----------------------------------------------------------------------|
| Acute oral toxicity | : | Acute toxicity estimate: > 2,000 mg/kg<br>Method: Calculation method |
|---------------------|---|----------------------------------------------------------------------|

**Components:****Chlorhexidine:**

|                                                 |   |                                                                                                   |
|-------------------------------------------------|---|---------------------------------------------------------------------------------------------------|
| Acute oral toxicity                             | : | LD50 Oral (Mouse): 1,260 mg/kg<br>LD50 Oral (Rabbit): 1,100 mg/kg<br>LD50 Oral (Rat): 2,000 mg/kg |
| Acute toxicity (other routes of administration) | : | LD50 (Rat): 21 mg/kg<br>Application Route: Intravenous                                            |

**Nonylphenol, ethoxylated:**

|                     |   |                               |
|---------------------|---|-------------------------------|
| Acute oral toxicity | : | LD50 (Rat): 500 - 2,000 mg/kg |
|---------------------|---|-------------------------------|

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Nonylphenol, ethoxylated:**

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 404 |
| Result  | : | No skin irritation      |

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:****Chlorhexidine:**

|         |   |        |
|---------|---|--------|
| Species | : | Rabbit |
|---------|---|--------|

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|| Result : Mild eye irritation

**Nonylphenol, ethoxylated:**

|| Species : Rabbit  
|| Result : Irreversible effects on the eye  
|| Method : OECD Test Guideline 405

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****Nonylphenol, ethoxylated:**

|| Test Type : Maximisation Test  
|| Exposure routes : Skin contact  
|| Species : Guinea pig  
|| Result : negative  
|| Remarks : Based on data from similar materials

**Chronic toxicity****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

**Nonylphenol, ethoxylated:**

|| Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials



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**II****Carcinogenicity**

Not classified based on available information.

**Components:****Chlorhexidine:**

|                        |                         |
|------------------------|-------------------------|
| Species                | : Rat                   |
| Application Route      | : oral (drinking water) |
| Exposure time          | : 2 Years               |
| Frequency of Treatment | : daily                 |
| NOAEL                  | : 38 mg/kg body weight  |
| Result                 | : negative              |

|                        |                         |
|------------------------|-------------------------|
| Species                | : Rat                   |
| Application Route      | : oral (drinking water) |
| Exposure time          | : 2 Years               |
| Frequency of Treatment | : daily                 |
| NOAEL                  | : 158 mg/kg body weight |
| Result                 | : negative              |

**Reproductive toxicity**

Not classified based on available information.

**Components:****Chlorhexidine:**

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Effects on fertility          | : Species: Rat<br>Fertility: NOAEL: 100 mg/kg body weight                |
| Effects on foetal development | : Species: Rat<br>Developmental Toxicity: NOAEL: 300 mg/kg body weight   |
|                               | : Species: Rabbit<br>Developmental Toxicity: NOAEL: 40 mg/kg body weight |

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

May cause damage to organs (Liver) through prolonged or repeated exposure.

**Components:****Chlorhexidine:**

|               |                                                                      |
|---------------|----------------------------------------------------------------------|
| Target Organs | : Liver                                                              |
| Assessment    | : May cause damage to organs through prolonged or repeated exposure. |

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**Repeated dose toxicity****Components:****Chlorhexidine:**

|                   |             |
|-------------------|-------------|
| Species           | : Rat       |
| NOAEL             | : 158 mg/kg |
| Application Route | : Oral      |
| Exposure time     | : 2 yr      |

|                   |               |
|-------------------|---------------|
| Species           | : Rabbit      |
| LOAEL             | : 250 mg/kg   |
| Application Route | : Dermal      |
| Exposure time     | : 13 Weeks    |
| Target Organs     | : Skin, Liver |

**Aspiration toxicity**

Not classified based on available information.

**Experience with human exposure****Components:****Chlorhexidine:**

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

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**Section 12: Ecological information****Ecotoxicity****Components:****Chlorhexidine:**

|                                                     |                                                                                                                                        |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : (Fish): 2.088 mg/l<br>Exposure time: 96 h<br>Method: ECOSAR (Ecological Structure Activity Relationships)                            |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.222 mg/l<br>Exposure time: 48 h<br>Method: ECOSAR (Ecological Structure Activity Relationships) |
| Toxicity to algae/aquatic plants                    | : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.124 mg/l<br>End point: Growth rate                                          |

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Exposure time: 96 hrs  
Method: ECOSAR (Ecological Structure Activity Relationships)

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

**Nonylphenol, ethoxylated:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): > 0.1 - 1 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC10 (Selenastrum capricornutum (green algae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Japanese medaka)): > 0.1 - 1 mg/l  
Exposure time: 100 d  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Mysidopsis bahia (opossum shrimp)): > 0.001 - 0.01 mg/l  
Exposure time: 28 d  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 10

**Persistence and degradability****Components:****Chlorhexidine:**

Biodegradability : Remarks: Not inherently biodegradable.

**Nonylphenol, ethoxylated:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

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**II****Bioaccumulative potential****Components:****Chlorhexidine:**

Partition coefficient: n-octanol/water : log Pow: 4.85

**Nonylphenol, ethoxylated:**

Partition coefficient: n-octanol/water : log Pow: 4.48

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**Section 13: Disposal considerations****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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**Section 14: Transport information****International Regulations****UNRTDG**

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Chlorhexidine, Nonylphenol, ethoxylated)

Class : 9

Packing group : III

Labels : 9

Environmentally hazardous : yes

**IATA-DGR**

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Chlorhexidine, Nonylphenol, ethoxylated)

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

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ger aircraft)

Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Chlorhexidine, Nonylphenol, ethoxylated)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

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

Not applicable for product as supplied.

**National Regulations****NZS 5433**

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Chlorhexidine, Nonylphenol, ethoxylated)

Class : 9

Packing group : III

Labels : 9

Hazchem Code : 3Z

Marine pollutant : no

**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.

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**Section 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****HSNO Approval Number**

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

**HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

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Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

**The components of this product are reported in the following inventories:**

|       |   |                |
|-------|---|----------------|
| AICS  | : | not determined |
| DSL   | : | not determined |
| IECSC | : | not determined |

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**Section 16: Other information**

Revision Date : 14.04.2025

**Further information**

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

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

Date format : dd.mm.yyyy

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Tem-

**Chlorhexidine (4.79%) Formulation**

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 06.09.2024  |
| 7.0     | 14.04.2025     | 10839975-00008 | Date of first issue: 25.08.2022 |

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perature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

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