

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024 Date of first issue: 10.08.2022

SECTION 1: IDENTIFICATION

Product name : Chlorhexidine / Glycerine Formulation

Other means of identification : Hibitane Plus (A3521)

Manufacturer or supplier's details

Company : Intervet Australia Pty Limited (trading as MSD Animal Health)

Address : 91-105 Harpin Street
Bendigo 3550, Victoria Australia

Telephone : 1 800 033 461

Emergency telephone number : Poisons Information Centre: Phone 13 11 26

E-mail address : EHSDATASTEWARD@msd.com

Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product
Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye irritation : Category 2B

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

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H320 Causes eye irritation.
H373 May cause damage to organs (Liver) through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.
Response:

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 2.0 | Revision Date: 14.04.2025 | SDS Number: 10829215-00009 | Date of last issue: 06.09.2024 Date of first issue: 10.08.2022 |
|----------------|------------------------------|-------------------------------|---|

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.

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) |
|---------------|---------|-----------------------|
| Glycerine | 56-81-5 | >= 60 -<= 100 |
| Chlorhexidine | 55-56-1 | >= 10 -< 30 |

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- 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.
- Most important symptoms and effects, both acute and delayed : Causes eye irritation.
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.

SECTION 5. FIREFIGHTING MEASURES

Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

| | |
|---|---|
| Suitable extinguishing media | : Water spray Alcohol-resistant foam Carbon dioxide (CO2) 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. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |
| Hazchem Code | : •3Z |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
| 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 cannot be contained. |
| Methods and materials for containment and cleaning up | : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment 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 |

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version
2.0

Revision Date:
14.04.2025

SDS Number:
10829215-00009

Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

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.
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 assessment
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.
- Conditions for safe storage : Keep in properly labelled containers.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|---------------------------------|---------|-------------------------------------|--|----------|
| Glycerine | 56-81-5 | TWA (Mist) | 10 mg/m3 | AU OEL |
| Chlorhexidine | 55-56-1 | TWA | 40 µg/m3 (OEB 3) | Internal |
| Further information: RSEN, DSEN | | | | |
| | | Wipe limit | 100 µg/100 cm2 | Internal |

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.

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version
2.0

Revision Date:
14.04.2025

SDS Number:
10829215-00009

Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

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 | : Combined particulates and organic vapour 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. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------|
| Appearance | : Aqueous solution |
| Colour | : dark blue |
| Odour | : No data available |
| Odour Threshold | : No data available |
| pH | : < 8.5 (20 °C) |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : No data available |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

| | |
|--|--|
| 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 | : 1.145 - 1.155 (20 °C) |
| 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 |

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

Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:**Glycerine:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity : LD50 (Guinea pig): > 5,000 mg/kg

Chlorhexidine:

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

Skin corrosion/irritation

Not classified based on available information.

Components:**Glycerine:**

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Causes eye irritation.

Components:**Glycerine:**

Species : Rabbit
Result : No eye irritation

Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

Chlorhexidine:

| | | |
|---------|---|---------------------|
| Species | : | Rabbit |
| Result | : | Mild eye irritation |

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**Glycerine:**

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: In vitro mammalian cell gene mutation test Result: negative |
| | | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
| | | Test Type: Chromosome aberration test in vitro Result: negative |
| | | Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Result: negative |

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 |

Chlorhexidine / Glycerine FormulationVersion
2.0Revision Date:
14.04.2025SDS Number:
10829215-00009Date of last issue: 06.09.2024
Date of first issue: 10.08.2022**Carcinogenicity**

Not classified based on available information.

Components:**Glycerine:**

| | | |
|-------------------|---|-----------|
| Species | : | Rat |
| Application Route | : | Ingestion |
| Exposure time | : | 2 Years |
| Result | : | negative |

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:**Glycerine:**

| | | |
|-------------------------------|---|---|
| Effects on fertility | : | Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative |
| Effects on foetal development | : | Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative |

Chlorhexidine:

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

Chlorhexidine / Glycerine FormulationVersion
2.0Revision Date:
14.04.2025SDS Number:
10829215-00009Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

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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. |

Repeated dose toxicity**Components:****Glycerine:**

| | | |
|-------------------|---|-----------------------------|
| Species | : | Rat |
| NOAEL | : | 0.167 mg/l |
| LOAEL | : | 0.622 mg/l |
| Application Route | : | inhalation (dust/mist/fume) |
| Exposure time | : | 13 Weeks |

| | | |
|-------------------|---|----------------------|
| Species | : | Rat |
| NOAEL | : | 8,000 - 10,000 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 2 yr |

| | | |
|-------------------|---|--------------|
| Species | : | Rabbit |
| NOAEL | : | 5,040 mg/kg |
| Application Route | : | Skin contact |
| Exposure time | : | 45 Weeks |

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.

Chlorhexidine / Glycerine FormulationVersion
2.0Revision Date:
14.04.2025SDS Number:
10829215-00009Date of last issue: 06.09.2024
Date of first issue: 10.08.2022**Experience with human exposure****Components:****Chlorhexidine:**

| | | |
|---------------------|---|--|
| General Information | : | Symptoms: Headache |
| Inhalation | : | 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**Ecotoxicity****Components:****Glycerine:**

| | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h |
| Toxicity to microorganisms | : | NOEC (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8 |

Chlorhexidine:

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

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024 Date of first issue: 10.08.2022

Persistence and degradability

Components:

Glycerine:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 30 d
Method: OECD Test Guideline 301D

Chlorhexidine:

Biodegradability : Remarks: Not inherently biodegradable.

Bioaccumulative potential

Components:

Glycerine:

Partition coefficient: n-octanol/water : log Pow: -1.75

Chlorhexidine:

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

Mobility in soil

No data available

Other adverse effects

No data available

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Chlorhexidine)
Class : 9
Packing group : III

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Chlorhexidine)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Chlorhexidine)
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

ADG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Chlorhexidine)
Class : 9
Packing group : III
Labels : 9
Hazchem Code : •3Z
Environmentally hazardous : yes

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.

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons) : Schedule 7 (Please use the original publication to check for

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version 2.0 Revision Date: 14.04.2025 SDS Number: 10829215-00009 Date of last issue: 06.09.2024 Date of first issue: 10.08.2022

| | |
|------------------------------------|---|
| Standard) Instrument | specific uses, specific conditions or threshold limits that might apply for this chemical) |
| Prohibition/Licensing Requirements | : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations. |

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

AICS : not determined
DSL : not determined
IECSC : not determined

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date : 14.04.2025
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

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.
AU OEL / TWA : Exposure standard - time weighted average

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;

SAFETY DATA SHEET



Chlorhexidine / Glycerine Formulation

Version
2.0

Revision Date:
14.04.2025

SDS Number:
10829215-00009

Date of last issue: 06.09.2024
Date of first issue: 10.08.2022

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 Temperature; 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.

AU / EN