

| Versi 4.0 | ion | Revision Date: 06.09.2024 | | S Number: 339983-00007 | Date of last issue: 21.11.2023 Date of first issue: 25.08.2022 | | | |
|--------------|---------------------------|------------------------------|-------|--|---|--|--|--|
| SEC | SECTION 1. IDENTIFICATION | | | | | | | |
| | Product identifier | | : | Chlorhexidine (4.79%) Formulation | | | | |
| | Other n | neans of identification | : | Hibitane (A0005 | 85) | | | |
| | Manufa | acturer or supplier's (| detai | ils | | | | |
| | Compa | | : | MSD | | | | |
| | Address | | : | Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340 | | | | |
| | Telephone | | : | 908-740-4000 | | | | |
| | Emergency telephone | | : | 1-908-423-6000 | | | | |
| | E-mail : | address | : | EHSDATASTEW | /ARD@msd.com | | | |
| | Recommended use of the ch | | | | | | | |
| | | mended use iions on use | : | Veterinary produ Not applicable | ict | | | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification in accordance w | vith ABNT NBR 14725 Standard |
|------------------------------------|------------------------------|
|------------------------------------|------------------------------|

| Eye irritation | : | Category 2A |
|---------------------------------------|---|-------------|
| Short-term (acute) aquatic hazard | : | Category 2 |
| Long-term (chronic) aquatic hazard | : | Category 2 |

GHS label elements in accordance with ABNT NBR 14725 Standard

| Hazard pictograms | : | |
|--------------------------|---|---|
| Signal Word | : | Warning |
| Hazard Statements | : | H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. |
| Precautionary Statements | : | Prevention: P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. |



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| | | Response: P305 + P351 + for several min easy to do. Col | eye irritation persists: Get medical advice/ at- |

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Classification | Concentration (% w/w) |
|--------------------------|-----------|--|-----------------------|
| Chlorhexidine | 55-56-1 | Acute Tox. (Oral), 4 Eye Irrit., 2B STOT RE, (Liver) , 2 Aquatic Acute, 1 Aquatic Chronic, 1 | >= 2,5 -< 5 |
| Nonylphenol, ethoxylated | 9016-45-9 | Acute Tox. (Oral), 4 Eye Dam., 1 Aquatic Acute, 1 Aquatic Chronic, 1 | >= 1 -< 2,5 |

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. |
| In case of eye contact | : | Get medical attention if symptoms occur. 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 serious eye irritation. |
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment |





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| Not | es to physician | : | | Il for exposure exists (see section 8). cally and supportively. |
| SECTIO | N 5. FIRE-FIGHTING ME | ASI | JRES | |
| Sui | table extinguishing media | : | Water spray Alcohol-resistant Carbon dioxide (C Dry chemical | |
| Uns | suitable extinguishing dia | : | None known. | |
| | ecific hazards during fire ting | : | Exposure to com | pustion products may be a hazard to health. |
| Haz | zardous combustion prod- S | : | Carbon oxides | |
| Spe ods | ecific extinguishing meth- | : | cumstances and t Use water spray t | 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 |
| | ecial protective equipment fire-fighters | : | | e, wear self-contained breathing apparatus. tective equipment. |
| SECTIO | N 6. ACCIDENTAL RELE | AS | E MEASURES | |
| tive | sonal precautions, protec- equipment and emer- icy procedures | : | Follow safe hand | tective equipment. ing advice (see section 7) and personal eent recommendations (see section 8). |
| Env | vironmental precautions | : | Prevent spreading oil barriers). Retain and dispos | akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages |
| | thods and materials for tainment and cleaning up | : | For large spills, p containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m | t absorbent material. rovide diking or other appropriate sep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items |

employed in the cleanup of releases. You will need to



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| | | Sections 13 a | ch regulations are applicable. nd 15 of this SDS provide information regarding r national requirements. |
| SECTION | 7. HANDLING AND ST | TORAGE | |
| Tech | nical measures | | ng measures under EXPOSURE PERSONAL PROTECTION section. |
| | l/Total ventilation ce on safe handling | Use only with Do not breathed Do not swallow Do not get in edited Avoid prolong Wash skin the Handle in accord practice, base assessment | adequate ventilation. e mist or vapors. v. |
| Hygie | ene measures | flushing system place. When using d Wash contam The effective of engineering co appropriate de industrial hygi | chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. Inated clothing before re-use. Operation of a facility should include review of portrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls. |
| Cond | litions for safe storage | : Keep in prope | rly labeled containers. dance with the particular national regulations. |
| Mate | rials to avoid | | vith the following product types: |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / 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 |

| 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 |
|------------------------|--|
|------------------------|--|



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| | | 1 | | , | |
| Pers | onal protective equip | nent | | | |
| Fi | Respiratory protection | | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type | | |
| Hand | protection | | | | |
| M | aterial | : (| Chemical-resistan | it gloves | |
| Eye p | emarks protection | : | If the work enviror mists or aerosols, Wear a faceshield potential for direct aerosols. | es with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. If or other full face protection if there is a contact to the face with dusts, mists, or | |
| Skin | and body protection | 1 | task being perforn disposable suits) t | arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state | : | Aqueous solution |
|--|---|---------------------|
| Color | : | blue |
| Odor | : | No data available |
| Odor Threshold | : | No data available |
| рН | : | 5,55 - 6,65 (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 |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |

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| | | explosion limit / Lower bility limit | : | No data available | 9 |
| | Vapor p | pressure | : | No data available | |
| | Relative | e vapor density | : | No data available |) |
| | Relative | e density | : | 1,010 - 1,020 | |
| | Density | , | : | No data available |) |
| | Solubili Wat | ty(ies) er solubility | : | No data available | 9 |
| | Partitio octanol | n coefficient: n- | : | Not applicable | |
| | | nition temperature | : | No data available |) |
| | Decom | position temperature | : | No data available | 9 |
| | Viscosi Visc | ty cosity, kinematic | : | No data available | 9 |
| | Explosi | ve properties | : | Not explosive | |
| | Oxidizir | ng properties | : | The substance of | r mixture is not classified as oxidizing. |
| | Molecu | lar weight | : | No data available | 9 |
| | Particle Particle | e characteristics e size | : | Not applicable | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|----------------------------------|---|--|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reac- | : | Can react with strong oxidizing agents. |
| tions | | |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | Oxidizing agents |
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of | : | Inhalation |
|---------------------------------|---|--------------|
| exposure | | Skin contact |
| | | Ingestion |
| | | Eye contact |

Acute toxicity

Not classified based on available information.



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| | <u>duct:</u> te oral toxicity | : | Acute toxicity esti Method: Calculati | mate: > 5.000 mg/kg on method |
| Con | <u>nponents:</u> | | | |
| Chlo | orhexidine: | | | |
| Acut | e oral toxicity | : | LD50 Oral (Mouse | e): 1.260 mg/kg |
| | | | LD50 Oral (Rabbi | t): 1.100 mg/kg |
| | | | LD50 Oral (Rat): 2 | 2.000 mg/kg |
| | te toxicity (other routes of inistration) | : | LD50 (Rat): 21 m Application Route | |
| Non | ylphenol, ethoxylated: | | | |
| Acut | e oral toxicity | : | LD50 (Rat): 500 - | 2.000 mg/kg |
| - | corrosion/irritation classified based on availa | ble | information. | |
| <u>Con</u> | <u>nponents:</u> | | | |
| Non | ylphenol, ethoxylated: | | | |
| Spe Meth Res | nod | : | Rabbit OECD Test Guide No skin irritation | eline 404 |
| | ous eye damage/eye irri ses serious eye irritation. | tati | on | |
| | ponents: | | | |
| Chlo | orhexidine: | | | |
| Spe Res | | : | Rabbit Mild eye irritation | |
| Non | ylphenol, ethoxylated: | | | |
| Spe | - | : | Rabbit | |
| Res Meth | | : | Irreversible effects OECD Test Guide | |
| Res | piratory or skin sensitiza | atio | n | |
| - | n sensitization classified based on availa | ble | information. | |
| Res | piratory sensitization | | | |
| Not | classified based on availa | ble | information. | |

Not classified based on available information.



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| Com | ponents: | | | |
| Test | es of exposure ies It | : Skir : Guir : neg | imization Te contact nea pig ative ed on data fr | st om similar materials |
| | n cell mutagenicity lassified based on avai | lable inforr | nation. | |
| Com | ponents: | | | |
| | rhexidine: | | | |
| Geno | otoxicity in vitro | | Type: Bacte ult: negative | rial reverse mutation assay (AMES) |
| | | Tes | | nosomal aberration nese hamster ovary cells |
| Geno | otoxicity in vivo | Spe | t Type: domii cies: Mouse ult: negative | nant lethal test |
| | | Spe | t Type: Cytog cies: Hamste ult: negative | jenetic assay r |
| Nonv | uphenol, ethoxylated: | | | |
| | toxicity in vitro | : Tes Res | ult: negative | rial reverse mutation assay (AMES) on data from similar materials |
| Carc | inogenicity lassified based on avai | lable inforr | nation. | |
| Com | ponents: | | | |
| Chlo | rhexidine: | | | |
| Spec Appli Expo | ies cation Route sure time uency of Treatment EL | : 2 Ye : daily : 38 r | | |
| Expo | cation Route sure time uency of Treatment EL | : 2 Ye : daily : 158 | | |
| | | | 8 / 14 | |





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| Not c | oductive toxicity lassified based on availa | able | information. | |
| | rhexidine: | | | |
| Effect | ts on fertility | : | Species: Rat Fertility: NOAEL: | 100 mg/kg body weight |
| Effect | ts on fetal development | : | | oxicity: NOAEL: 300 mg/kg body weight |
| | | | Species: Rabbit Developmental Te | oxicity: NOAEL: 40 mg/kg body weight |

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:

Chlorhexidine:

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

Repeated dose toxicity

Components:

Chlorhexidine:

| Species | : Rat |
|-------------------|-------------|
| NOAEL | : 158 mg/kg |
| Application Route | : Oral |
| Exposure time | : 2 y |
| Species | : Rabbit |
| LOAEL | : 250 mg/kg |
| Application Route | : Dermal |

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Exposure time

Target Organs

Chlorhexidine:

General Information

: Symptoms: Headache

: 13 Weeks

: Skin, Liver



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|--|---|--------|---|---|--|
| Inhalation Ingestion SECTION 12. ECOLOGICAL INFO | | : : | Target Organs: Lungs Symptoms: Asthmatic appearance, bronchospasm, disco in the chest, upper respiratory tract infection Target Organs: Gastrointestinal tract Symptoms: Gastrointestinal disturbance, Gastrointestinal damage | | |
| | oxicity | | | | |
| | ponents: | | | | |
| | rhexidine: | | | | |
| Toxic | to fish | : | (Fish): 2,088 mg/ Exposure time: 96 Method: ECOSAF ships) | | |
| | tity to daphnia and other tic invertebrates | : | Exposure time: 48 | hagna (Water flea)): 0,222 mg/l 3 h R (Ecological Structure Activity Relation- | |
| Toxic plant | sity to algae/aquatic s | : | mg/l End point: Growth Exposure time: 96 | | |
| | ctor (Acute aquatic tox- | : | 1 | | |
| icity) M-Fa toxici | ctor (Chronic aquatic ty) | : | 1 | | |
| Nony | /Iphenol, ethoxylated: | | | | |
| Toxic | ity to fish | : | Exposure time: 96 | s promelas (fathead minnow)): > 0,1 - 1 mg/l 5 h on data from similar materials | |
| | tity 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 plant | sity to algae/aquatic s | : | mg/l Exposure time: 72 Method: OECD T Remarks: Based EC10 (Selenastru Exposure time: 72 Method: OECD T | est Guideline 201 on data from similar materials Im capricornutum (green algae)): > 1 mg/l 2 h | |
| | | | | | |

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| M-Fac | tor (Acute aquatic tox- | : | 1 | |
| icity) | | · | I | |
| Toxicit icity) | ty to fish (Chronic tox- | : | Exposure time: 10 | atipes (Japanese medaka)): > 0,1 - 1 mg/l 00 d on data from similar materials |
| | ty to daphnia and other c invertebrates (Chron- city) | : | mg/l Exposure time: 28 | is bahia (opossum shrimp)): > 0,001 - 0,01 3 d on data from similar materials |
| M-Fac toxicity | tor (Chronic aquatic | : | 10 | |
| Persis | stence and degradabili | ty | | |
| Comp | onents: | | | |
| Chlor | hexidine: | | | |
| Biode | gradability | : | Remarks: Not inh | erently biodegradable. |
| Nonyl | phenol, ethoxylated: | | | |
| Biode | gradability | : | Result: Not readil Remarks: Based | y biodegradable. on data from similar materials |
| Bioac | cumulative potential | | | |
| Comp | onents: | | | |
| Chlor | hexidine: | | | |
| | on coefficient: n- bl/water | : | log Pow: 4,85 | |
| Nonyl | phenol, ethoxylated: | | | |
| Partitio | on coefficient: n- bl/water | : | log Pow: 4,48 | |
| | i ty in soil ta available | | | |
| | adverse effects ta 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 | : | |





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| ECTION | 14. TRANSPORT INFO | RM | ATION | |
| Inter | national Regulations | | | |
| | _ | | | |
| | TDG umber | | UN 3082 | |
| | er shipping name | : | ENVIRONMENT N.O.S. | |
| Class | 3 | | 9 | Nonylphenol, ethoxylated) |
| | ing group | ÷ | Ĩ | |
| Labe | ls | : | 9 | |
| Envir | onmentally hazardous | : | yes | |
| ΙΑΤΑ | -DGR | | | |
| UN/I | | : | UN 3082 | |
| | er shipping name | : | (Chlorhexidine, | hazardous substance, liquid, n.o.s. Nonylphenol, ethoxylated) |
| Class | | ÷ | 9 | |
| Pack Labe | ing group | ÷ | III Miscellaneous | |
| | ing instruction (cargo | : | 964 | |
| Pack | ing instruction (passen- | : | 964 | |
| Ēnvir | onmentally hazardous | : | yes | |
| IMDO | G-Code | | | |
| | umber | : | UN 3082 | |
| Prope | er shipping name | : | | ALLY HAZARDOUS SUBSTANCE, LIQUID |
| | | | N.O.S. (Chlorbexidine | Nonylphenol, ethoxylated) |
| Class | 6 | : | 9 | |
| | ing group | : | III . | |
| Labe | | : | 9 | |
| | Code | : | F-A, S-F | |
| | ne pollutant | • | yes | |
| | sport in bulk according pplicable for product as | - | | POL 73/78 and the IBC Code |
| Dom | estic regulation | | | |
| ANT | г | | | |
| | umber er shipping name | : | UN 3082 ENVIRONMENT | ALLY HAZARDOUS SUBSTANCE. LIQUID |

| UN number | : | UN 3082 |
|------------------------------|---|--|
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, |
| | | N.O.S. |
| | | (Chlorhexidine, Nonylphenol, ethoxylated) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| Hazard Identification Number | : | 90 |
| | | |

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





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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 environmenta mixture | al regulations/legislatio | on specific for the | substance or |
|--|---------------------------|---------------------|--------------|
| National List of Carcinogenic Ager (LINACH) | nts for Humans - : | Not applicable | |
| Brazil. List of chemicals controlled Police | by the Federal : | Not applicable | |
| The ingredients of this product AICS : | are reported in the follo | owing inventories | : |

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

SECTION 16. OTHER INFORMATION

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|---------------|---|------------|
| Date format | : | dd.mm.yyyy |

Further information

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

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



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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 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.

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