

| Version 2.7 | Revision Date: 28.09.2024 | SDS Number: 5207902-00009 | Date of last issue: 30.09.2023 Date of first issue: 24.10.2019 |
|----------------|------------------------------|------------------------------|---|
| SECTION | 1. IDENTIFICATION | | |
| Produ | uct identifier | : Florfenicol (2 | %) Liquid Formulation |
| Manu | afacturer or supplier' | s details | |
| Com | bany | : MSD | |
| Addre | ess | | Bento Soares, 530 10 Paulo - Brazil CEP 12730-340 |
| Telep | bhone | : 908-740-400 | 0 |
| Emer | gency telephone | : 1-908-423-60 | 000 |
| E-ma | il address | : EHSDATAST | FEWARD@msd.com |
| Reco | mmended use of the | e chemical and restr | ictions on use |
| Reco | mmended use | : Veterinary pr | |
| Restr | rictions on use | : Not applicabl | e |
| | | | |
| SECTION | 2. HAZARDS IDENT | IFICATION | |

| GHS Classification in accordance with ABNT NBR 14725 Standard | | | | | | |
|---|---|--|--|--|--|--|
| Specific target organ toxicity - repeated exposure | : | Category 2 (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) | | | | |
| Short-term (acute) aquatic hazard | : | Category 2 | | | | |

| hazard | , | , | • | 0 , |
|--------|---|---|---|-----|
| | | | | |

Long-term (chronic) aquatic : Category 2

GHS label elements in accordance with ABNT NBR 14725 Standard

| Hazard pictograms | : | |
|--------------------------|---|--|
| Signal Word | : | Warning |
| Hazard Statements | : | H373 May cause damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated expo- sure. H411 Toxic to aquatic life with long lasting effects. |
| Precautionary Statements | : | Prevention: P273 Avoid release to the environment. |



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Response:

P314 Get medical advice/ attention if you feel unwell. P391 Collect spillage.

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form combustible dust concentrations in air during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Classification | Concentration (% w/w) |
|---------------|------------|--|-----------------------|
| Florfenicol | 73231-34-2 | Acute Tox. (Oral), 5 Repr., 2 STOT RE, (Liver, Brain, Testis, Spinal cord, Blood, gallblad- der), 1 Aquatic Acute, 1 Aquatic Chronic, 1 | 2 |

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. |
| In case of skin contact | : | In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | If in eyes, rinse well with water. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : | May cause damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of the skin. |
| Protection of first-aiders | : | Dust contact with the eyes can lead to mechanical irritation. 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. |

SAFETY DATA SHEET



Florfenicol (2%) Liquid Formulation

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| SEC | TION 5 | . FIRE-FIGHTING ME | ASU | IRES | |
| | Suitable | e extinguishing media | : | Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical | |
| | Unsuita media | ble extinguishing | : | None known. | |
| | Specific fighting | c hazards during fire | : | Exposure to comb | pustion products may be a hazard to health. |
| | Hazard ucts | ous combustion prod- | : | Carbon oxides | |
| | Specific ods | c extinguishing meth- | : | cumstances and t Use water spray to | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do |
| | Special for fire- | protective equipment fighters | : | In the event of fire Use personal prot | e, wear self-contained breathing apparatus. ective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked 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 |



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| | | employed in determine w Sections 13 | his material, as well as those materials and items the cleanup of releases. You will need to hich regulations are applicable. and 15 of this SDS provide information regarding or national requirements. |
| SECTION | 7. HANDLING AND S | TORAGE | |
| Tech | nical measures | causing an e Provide ade | city may accumulate and ignite suspended dust explosion. quate precautions, such as electrical grounding J, or inert atmospheres. |
| | I/Total ventilation | : Use only wit | h adequate ventilation. |
| Advid | e on safe handling | | the mist or vapors. |
| | | Do not swal Avoid conta | |
| | | Avoid prolor | nged or repeated contact with skin. |
| | | | noroughly after handling. |
| | | | ccordance with good industrial hygiene and safety sed on the results of the workplace exposure |
| | | | st generation and accumulation. |
| | | | ner closed when not in use. |
| | | | from heat and sources of ignition. Itionary measures against static discharges. |
| | | | drink or smoke when using this product. |
| | | environmen | |
| Hygie | ene measures | | to chemical is likely during typical use, provide eye tems and safety showers close to the working |
| | | | do not eat, drink or smoke. |
| | | | minated clothing before re-use. |
| | | | e operation of a facility should include review of |
| | | | controls, proper personal protective equipment, degowning and decontamination procedures, |
| | | industrial hy | giene monitoring, medical surveillance and the |
| 2 | l'élese fan est d | | nistrative controls. |
| Conc | litions for safe storage | | perly labeled containers. ordance with the particular national regulations. |
| Mate | rials to avoid | | with the following product types: |
| | | Self-reactive | e substances and mixtures |
| | | Organic per Explosives Gases | DXIGES |
| | | Gases | |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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



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| Florfe | nicol | | 73231-34-2 | TWA | 100 μg/m3 (OEB 2) | Internal |
| Engir | neering measures | : | technologies t less quick con All engineerin design and op protect produc | o control airborn inections). g controls shoul perated in accord cts, workers, and | controls and manufa ne concentrations (e. d be implemented by dance with GMP prin d the environment. require special conta | g., drip- / facility ciples to |
| Perso | onal protective equipme | ent | | | | |
| Respi | ratory protection | : | exposure asse | essment demon | tilation is not availab strates exposures ou e respiratory protection | utside the |
| Hand | ter type protection aterial | : | Particulates ty Chemical-resi | | | |
| | rotection | : | Wear safety g If the work en- mists or aeros Wear a facesh | lasses with side vironment or act sols, wear the ap nield or other ful | e shields or goggles. tivity involves dusty oppropriate goggles. I face protection if th the face with dusts, r | ere is a |
| | and body protection | : | | or laboratory co | at. | |
| ECTION | 9. PHYSICAL AND CHE | | GAL PROPER | HES | | |
| Physic | cal state | : | liquid | | | |
| Color | | : | Colorless to p | bale yellow | | |
| Odor | | : | odorless, cha | aracteristic, very | faint | |
| Odor | Threshold | : | No data avail | able | | |
| рН | | : | No data avail | able | | |
| Meltin | g point/freezing point | : | No data avail | able | | |
| Initial range | boiling point and boiling | : | No data avail | able | | |
| Flash | point | : | No data avail | able | | |
| Evapo | oration rate | : | No data avail | able | | |
| Flamr | nability (solid, gas) | : | | nbustible dust c ng or other mea | oncentrations in air ons. | during proce- |
| Flamr | nability (liquids) | : | No data avail | able | | |
| | r explosion limit / Upper nability limit | : | No data avail | able | | |

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

SECTION 10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | Not classified as a reactivity hazard. Stable under normal conditions. May form combustible dust concentration processing, handling or other means. Can react with strong oxidizing agents. | ns in air during |
|---|---|------------------|
| Conditions to avoid | Heat, flames and sparks. Avoid dust formation. | |
| Incompatible materials | Oxidizing agents | |
| Hazardous decomposition products | No hazardous decomposition products a | re known. |

SECTION 11. TOXICOLOGICAL INFORMATION

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



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| | ute toxicity t classified based on availa | ble | information | |
| | oduct: | 0.0 | | |
| | ute oral toxicity | : | Acute toxicity esti Method: Calculati | mate: > 5.000 mg/kg on method |
| <u>Co</u> | mponents: | | | |
| Flo | orfenicol: | | | |
| Ac | ute oral toxicity | : | LD50 (Rat): > 2.0 | 00 mg/kg |
| | | | LD50 (Mouse): > | 2.000 mg/kg |
| | | | LD50 (Dog): > 1.2 | 280 mg/kg |
| Ac | ute inhalation toxicity | : | LC50 (Rat): > 0,2 Exposure time: 4 | 0 |
| Ac | ute dermal toxicity | : | Remarks: No data | a available |
| | ute toxicity (other routes of ministration) | : | LD50 (Rat): 1.913 Application Route | |
| | | | LD50 (Mouse): 10 Application Route | |
| Sk | in corrosion/irritation | | | |

Not classified based on available information.

Components:

Florfenicol:

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Florfenicol:

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

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.



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| Components: | | | | |
| Florfe | enicol: | | | |
| Test T | | : | Maximization Te | st |
| Speci | | : | Guinea pig | |
| Resul | t | : | negative | |
| Germ | cell mutagenicity | | | |
| Not cl | assified based on ava | ailable | information. | |
| Comp | oonents: | | | |
| Florfe | enicol: | | | |
| Genotoxicity in vitro | | : | Test Type: Bacte Result: negative | erial reverse mutation assay (AMES) |
| | | | | damage and repair, unscheduled DNA sy Ilian cells (in vitro) hepatocytes |
| | | | | o mammalian cell gene mutation test use lymphoma cells |
| | | | | nosome aberration test in vitro nese hamster ovary cells |
| Genot | toxicity in vivo | : | Test Type: Micro Species: Mouse Cell type: Bone r Application Rout Result: negative | narrow |

Carcinogenicity

Not classified based on available information.

Components:

Florfenicol:

| Species Application Route Exposure time Result Target Organs | : | Rat oral (gavage) 2 Years negative Liver, Testes |
|--|---|--|
| Species Application Route Exposure time Result Target Organs | : | Mouse oral (gavage) 2 Years negative Testes, Blood |

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| Not cl | oductive toxicity assified based on available information. conents: | | | | | | | |
| Florfe | enicol: | | | | | | | |
| _ | ts on fertility | : | Species: Rat Application Rout Fertility: LOAEL | generation reproduction toxicity study te: Oral : 12 mg/kg body weight ed pup survival, reduced lactation | | | | |
| Effect | ts on fetal development | : | Species: Rat General Toxicity Embryo-fetal tox Result: No terato | ryo-fetal development Maternal: NOAEL: 4 mg/kg body weight ticity.: LOAEL: 40 mg/kg body weight ogenic effects., Fetotoxicity. ffects were seen only at maternally toxic dos | | | | |
| | | | Species: Mouse Application Rout General Toxicity | te: oral (gavage) Maternal: NOAEL: 120 mg/kg body weight ticity.: LOAEL: 40 mg/kg body weight | | | | |
| Repro sessn | oductive toxicity - As- nent | : | fertility, based or | of adverse effects on sexual function and n animal experiments., Some evidence of on development, based on animal | | | | |
| | C-single exposure lassified based on availa | ahla | information | | | | | |
| STOT-repeated exposure | | s (Li | | Spinal cord, Blood, gallbladder) through | | | | |
| Com | oonents: | | | | | | | |
| Florfe | enicol: | | | | | | | |
| | et Organs ssment | : | | tis, Spinal cord, Blood, gallbladder to organs through prolonged or repeated | | | | |

Repeated dose toxicity

Components:

Florfenicol:

| Species | : | Dog |
|---------------|---|-----------------------------------|
| NOAEL | : | 3 mg/kg |
| Exposure time | : | 13 Weeks |
| Target Organs | : | Liver, Testis, Brain, Spinal cord |



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|------------------|---|---|---|---|
| | | : | Mouse 200 mg/kg 13 Weeks Liver, Testis | |
| • | | : | Rat 30 mg/kg 13 Weeks Liver, Testis | |
| | EL | : | Dog 3 mg/kg 12 mg/kg 52 Weeks Liver, gallbladder | |
| | EL | : | Rat 1 mg/kg 3 mg/kg 52 Weeks Testis | |
| Not cl | ation toxicity assified based on availa 12. ECOLOGICAL INF(| | | |
| | oxicity | | | |
| | <u>oonents:</u> | | | |
| | enicol: ity to fish | : | LC50 (Lepomis m Exposure time: 90 Method: FDA 4.1 | |
| | | | LC50 (Oncorhynd Exposure time: 90 Method: FDA 4.1 | |
| | ity to daphnia and other ic invertebrates | : | Exposure time: 4 | nagna (Water flea)): > 330 mg/l 3 h est Guideline 202 |
| Toxici plants | ity to algae/aquatic | : | EC50 (Pseudokin mg/l Exposure time: 14 Method: FDA 4.0 | |
| | | | NOEC (Pseudoki mg/l Exposure time: 14 Method: FDA 4.0 | |



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| | | | IC50 (Skeletonen Exposure time: 72 Method: ISO 102 | |
| | | | NOEC (Skeletone Exposure time: 72 Method: ISO 102 | |
| | | | EC50 (Lemna gib Exposure time: 7 Method: OECD T | |
| | | | NOEC (Lemna gi Exposure time: 7 Method: OECD T | |
| | | | EC50 (Navicula p Exposure time: 72 Method: OECD T | |
| | | | NOEC (Navicula Exposure time: 72 Method: OECD T | |
| | | | EC50 (Anabaena Exposure time: 72 Method: OECD T | |
| | | | NOEC (Anabaena Exposure time: 72 Method: OECD T | |
| | tor (Acute aquatic tox- | : | 10 | |
| icity) Toxicit <u>;</u> icity) | y to fish (Chronic tox- | : | Exposure time: 32 | es promelas (fathead minnow)): 5,5 mg/l 2 d est Guideline 210 |
| | y to daphnia and other c invertebrates (Chron- ity) | : | NOEC (Daphnia Exposure time: 2 Method: OECD T | |
| M-Fact toxicity | tor (Chronic aquatic | : | 10 | |
| | tence and degradabili a available | ity | | |
| Bioaco | cumulative potential | | | |
| <u>Comp</u> | onents: | | | |
| Florfe Partitio | n icol: on coefficient: n- | • | log Pow: 0,373 | |
| | l/water | • | pH: 7 | |



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| Mobil | lity in soil | | |
| Com | oonents: | | |
| | | | |
| | enicol: oution among environ- | : Koc: 52 | |
| | al compartments | Method: FDA 3 | 08 |
| | r adverse effects | | |
| No da | ata available | | |
| ECTION | 13. DISPOSAL CONSI | DERATIONS | |
| | | | |
| • | osal methods | | |
| Waste | e from residues | | of waste into sewer. |
| Contaminated packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved waster handling site for recycling or disposal. | | | rs should be taken to an approved waste recycling or disposal. |
| | | If not otherwise | specified: Dispose of as unused product. |
| ECTION | 14. TRANSPORT INFO | RMATION | |
| | | | |
| UNR UN nu Prope | umber er shipping name | N.O.S. (Florfenicol) | TALLY HAZARDOUS SUBSTANCE, LIQUID |
| UNR UN nu Prope Class | FDG umber er shipping name | : ENVIRONMEN N.O.S. (Florfenicol) : 9 | TALLY HAZARDOUS SUBSTANCE, LIQUID |
| UNR UN nu Prope Class Packi | FDG umber er shipping name ng group | : ENVIRONMEN N.O.S. (Florfenicol) : 9 : III | TALLY HAZARDOUS SUBSTANCE, LIQUID |
| UNRT UN nu Prope Class Packi Label | FDG umber er shipping name ng group | : ENVIRONMEN N.O.S. (Florfenicol) : 9 | TALLY HAZARDOUS SUBSTANCE, LIQUID |
| UNRT UN nu Prope Class Packi Label | TDG umber er shipping name ng group s onmentally hazardous | : ENVIRONMEN N.O.S. (Florfenicol) : 9 : III : 9 | TALLY HAZARDOUS SUBSTANCE, LIQUID |
| UNRT UN nu Prope Class Packi Label Enviro IATA | TDG umber er shipping name ng group s onmentally hazardous -DGR O No. | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 | |
| UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope | TDG umber er shipping name ng group s onmentally hazardous -DGR O No. er shipping name | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) | TALLY HAZARDOUS SUBSTANCE, LIQUID / hazardous substance, liquid, n.o.s. |
| UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope | TDG umber er shipping name ng group s onmentally hazardous -DGR O No. er shipping name | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally | |
| UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label | FDG umber er shipping name ng group s onmentally hazardous -DGR O No. er shipping name | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 | |
| UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra | TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 III Miscellaneous 964 | |
| UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai | TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 III Miscellaneous 964 964 | |
| UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai | TDG umber er shipping name ng group s onmentally hazardous -DGR D No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 III Miscellaneous 964 | |
| UNRT UN nu Prope Class Packi Label Enviro VN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro | TDG umber er shipping name ng group sonmentally hazardous -DGR D No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous G-Code | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 III Miscellaneous 964 964 yes | |
| UNRT UN nu Prope Class Packi Label Enviro VN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro UN nu | TDG umber er shipping name ng group sonmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous -Code umber | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 III Miscellaneous 964 964 yes UN 3082 | / hazardous substance, liquid, n.o.s. |
| UNRT UN nu Prope Class Packi Label Enviro VN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro UN nu | TDG umber er shipping name ng group sonmentally hazardous -DGR D No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous G-Code | ENVIRONMEN N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally (Florfenicol) 9 III Miscellaneous 964 964 yes UN 3082 | |



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| Labels EmS (| | : III : 9 : F-A, S-F : yes | |
| | port in bulk according | | of MARPOL 73/78 and the IBC Code |
| Dome | estic regulation | | |
| ANTT UN nu Prope | | : UN 3082 : ENVIRC N.O.S. (Florfen | NMENTALLY HAZARDOUS SUBSTANCE, LIQUID |
| Labels | ng group | : 9 : III : 9 | |
| Speci | al precautions for use | r | |
| based Sheet | I upon the properties of t | he unpackag ations may v | ein are for informational purposes only, and solely ed material as it is described within this Safety Data ary by mode of transportation, package sizes, and |
| | | ORMATION | |

| National List of Carcinogenic Agents for Humans - (LINACH) | : | Not applicable |
|--|---|----------------|
| Brazil. List of chemicals controlled by the Federal Police | : | Not applicable |

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

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

SECTION 16. OTHER INFORMATION

| Revision Date | : | 28.09.2024 |
|---------------|---|------------|
| 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/ |



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Date of last issue: 30.09.2023 Date of first issue: 24.10.2019

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 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 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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