

Tildipirosin (4%) Formulation

| Version 2.9 | Revision Date: 30.09.2023 | | S Number: 8767-00014 | Date of last issue: 04.04.2023 Date of first issue: 18.11.2016 | | |
|----------------|--------------------------------|---------|------------------------------------|---|--|--|
| SECTION | SECTION 1. IDENTIFICATION | | | | | |
| Prod | Product name | | Tildipirosin (4%) | Formulation | | |
| Manu | ufacturer or supplier's | s detai | ls | | | |
| Com | bany | : | MSD | | | |
| Addro | ess | : | | , 6th floor, Ciudad Autonoma rgentina C1013AAP | | |
| Telep | Telephone | | 908-740-4000 | | | |
| Emei | Emergency telephone | | 1-908-423-6000 | | | |
| E-ma | E-mail address | | EHSDATASTEWARD@msd.com | | | |
| Reco | ommended use of the | chemi | ical and restriction | ons on use | | |
| | mmended use rictions on use | : | Veterinary produ Not applicable | ict | | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification Skin sensitization | : | Category 1 |
|--|---|---|
| Reproductive toxicity | : | Category 2 |
| Short-term (acute) aquatic hazard | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 1 |
| GHS label elements Hazard pictograms | : | |
| Signal Word | : | Warning |
| Hazard Statements | : | H317 May cause an allergic skin reaction. H361f Suspected of damaging fertility. H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary Statements | : | Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read |



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| | | P272 Contamir the workplace. P273 Avoid rele | eathing mist or vapors. hated work clothing should not be allowed out of ease to the environment. tective gloves/ protective clothing/ eye protec- |
| | | P308 + P313 IF attention. P333 + P313 If vice/ attention. | ON SKIN: Wash with plenty of water. exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before billage. |
| | | Storage: P405 Store loc | ked up. |
| | | Disposal: P501 Dispose o disposal plant. | of contents/ container to an approved waste |

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) |
|-------------------------|-------------|-----------------------|
| Tildipirosin | 328898-40-4 | >= 3 -< 5 |
| Citric acid monohydrate | 5949-29-1 | >= 1 -< 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. |
| 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 | : | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |



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| lf swa | llowed | : | Get medical atter | NOT induce vomiting. ntion. roughly with water. | |
| and e | Most important symptoms and effects, both acute and delayed | | May cause an allergic skin reaction. Suspected of damaging fertility. | | |
| Protection of first-aiders | | : | and use the reco | lers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8). | |
| Notes | Notes to physician | | Treat symptomat | ically and supportively. | |
| SECTION | SECTION 5. FIRE-FIGHTING ME | | RES | | |
| Suitab | ble extinguishing media | : | Water spray Alcohol-resistant Carbon dioxide (0 | | |

| Unsuitable extinguishing | : | Carbon dioxide (CO2) Dry chemical None known. |
|---|---|---|
| media | - | |
| Specific hazards during fire fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | : | Carbon oxides |
| Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. |
| Special protective equipment for fire-fighters | : | Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective 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. 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 th determine whi Sections 13 ar | 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 ST | ORAGE | | |
| Tech | nical measures | 5 | ng measures under EXPOSURE ERSONAL PROTECTION section. | |
| Loca | /Total ventilation | | adequate ventilation. | |
| Advic | e on safe handling | : Do not get on Do not breathe Do not swallow Avoid contact Handle in acco practice, base assessment | skin or clothing. e mist or vapors. v. | |
| Cond | litions for safe storage | | | |
| Mate | Materials to avoid : Do no | | ith the following product types: ig agents | |

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 |
|--------------|---------------------------|-------------------------------------|--|----------|
| Tildipirosin | 328898-40-4 | TWA | 100 µg/m3 (OEB 2) | Internal |
| | Further information: DSEN | | | |
| | | Wipe limit | 100 µg/100 cm ² | 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. Laboratory operations do not require special containment. | | | | |
|----------------------------------|--|--|--|--|--|
| 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 : Hand protection | Particulates type | | | | |



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| Material | | : Chemical-resis | tant gloves | | |
| 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 Hygiene measures | | : If exposure to or eye flushing sy working place. When using do Contaminated workplace. Wash contamin The effective or engineering co appropriate de industrial hygie | or laboratory coat. chemical is likely during typical use, provide stems and safety showers close to the o not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls. | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|---|---|-------------------|
| Color | : | No data available |
| Odor | : | No data available |
| Odor Threshold | : | No data available |
| рН | : | No data available |
| 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 |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure | : | No data available |



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| Rela | tive vapor density | : No data available | |
| Rela | tive density | : No data available | |
| Dens | ity | : 1,0499 g/cm ³ | |
| | bility(ies) /ater solubility | : No data available | |
| | tion coefficient: n- nol/water | : No data available | |
| 00101 | gnition temperature | : No data available | |
| Deco | mposition temperature | : No data available | |
| Visco V | osity iscosity, kinematic | : No data available | |
| Explo | osive properties | : Not explosive | |
| Oxid | zing properties | : The substance or mixture is not cla | assified as oxidizing. |
| Mole | cular weight | : No data available | |
| Parti | cle size | : No data available | |
| | | | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | : | Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. |
|--|---|--|
| Conditions to avoid Incompatible materials Hazardous decomposition products | : | None known. Oxidizing agents 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.

Components:

Tildipirosin:

Acute oral toxicity

: LD50 (Rat): > 2.000 mg/kg

LD50 (Mouse): > 2.000 mg/kg



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| Acute | e dermal toxicity | : | Remarks: No data | a available |
| | toxicity (other routes of histration) | : | LD50 (Mouse): 6, Application Route | |
| Citric | acid monohydrate: | | | |
| Acute | oral toxicity | : | LD50 (Mouse): 5.4 | 400 mg/kg |
| Acute | e dermal toxicity | : | LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity | |
| - | corrosion/irritation lassified based on availa | ble | information. | |
| | oonents: | | | |
| Tildip | birosin: | | | |
| Speci Resul | es | : | Rabbit No skin irritation | |
| Citric | acid monohydrate: | | | |
| Speci Resul | | : | Rabbit No skin irritation | |
| | us eye damage/eye irri | | | |
| _ | lassified based on availa conents: | bie | mornauon. | |
| | birosin: | | | |
| Speci | | : | Rabbit | |
| Resul | | : | No eye irritation | |
| Citric | acid monohydrate: | | | |
| Speci | - | : | Rabbit | |
| Resul | lt | : | Irritation to eyes, r | reversing within 21 days |
| Resp | iratory or skin sensitiza | atio | n | |
| Skin | sensitization | | | |
| | ause an allergic skin rea | actic | on. | |
| - | iratory sensitization lassified based on availa | ble | information. | |
| <u>Com</u> | oonents: | | | |
| Tildip | birosin: | | | |
| - | Гуре | | Maximization Test | ł |



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| Route Specie Result | | : G | ermal Juinea pig ensitizer | |
| | cell mutagenicity assified based on ava | ailable inf | ormation. | |
| <u>Comp</u> | onents: | | | |
| Tildipi | irosin: | | | |
| | oxicity in vitro | N | | cterial reverse mutation assay (AMES) ation: with and without metabolic activati e |
| | | T N | est system: H | omosomal aberration uman lymphocytes ation: with and without metabolic activation e |
| | | T N | est system: m | itro mammalian cell gene mutation test nouse lymphoma cells ation: with and without metabolic activati e |
| Genot | oxicity in vivo | S A | est Type: Mic pecies: Mous pplication Ro esult: negativ | ute: Oral |
| Citric | acid monohydrate: | | | |
| | oxicity in vitro | | est Type: Bac esult: negativ | eterial reverse mutation assay (AMES) |
| | | | est Type: in v esult: positive | itro micronucleus test |
| | | | est Type: Bac esult: negativ | eterial reverse mutation assay (AMES) |
| Genot | oxicity in vivo | c S A | vtogenetic tes pecies: Rat | agenicity (in vivo mammalian bone-marr t, chromosomal analysis) ute: Ingestion e |

Reproductive toxicity

Suspected of damaging fertility.

Components:

Tildipirosin:



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| Effect | ts on fertility | : | Species: Rat Application Route General Toxicity F Symptoms: Effect | F1: LOAEL: 80 mg/kg body weight |
| Effect | ts on fetal development | : | Species: Rabbit, f Embryo-fetal toxic Symptoms: Redu Result: No teratog | sity.: NOAEL: 30 mg/kg body weight ced body weight |
| | | | Species: Rat, fem Embryo-fetal toxic Symptoms: Redu Result: No teratog | city.: NOAEL: 30 mg/kg body weight ced body weight |
| Repro sessr | oductive toxicity - As- nent | : | | f adverse effects on sexual function and animal experiments. |
| Citric | acid monohydrate: | | | |
| | ts on fetal development | : | Test Type: Embry Species: Rat Application Route Result: negative | ro-fetal development : Ingestion |
| | F-single exposure lassified based on availa | able | information. | |
| Com | ponents: | | | |
| | e acid monohydrate: ssment | : | May cause respira | atory irritation. |
| | F-repeated exposure lassified based on availa | able | information. | |
| Com | ponents: | | | |
| - | birosin: et Organs | : | | cular system, Nervous system, eye - retina, Jand, spleen, Pancreas |
| Asses | ssment | : | | ge to organs through prolonged or repeated |
| | | | | |



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| Repe | ated dose toxicity | | |
| Comp | oonents: | | |
| Tildip | irosin: | | |
| Speci | | : Rat | |
| NOAE | | : 20 mg/kg | |
| LOAE | | : 60 mg/kg | |
| | ation Route | : Oral | |
| | sure time t Organs | : 90 d : spleen, thymus gland | |
| Symp | | : Salivation | |
| | | - | |
| Speci | | : Dog | |
| | ation Route | : 20 mg/kg : Oral | |
| | sure time | : 28 d | |
| | t Organs | : Heart, Central nervous | s system. Blood |
| Symp | | : Tremors | |
| Speci | es | : Dog | |
| NOAE | | : 6 mg/kg | |
| Applic | ation Route | : Oral | |
| | sure time | : 90 d | |
| | t Organs | : Heart, Cardio-vascula | r system |
| Symp | toms | : Irritability | |
| Speci | | : Dog | |
| NOAE | | : 10 mg/kg | |
| LOAE | | : 50 mg/kg | |
| | ation Route | : Oral : 55 Weeks | |
| | t Organs | | - retina, Heart, Thyroid, spleen, thym |
| raigo | Corgano | gland, Pancreas | round, riourt, rhyrold, opioon, arynn |
| Citric | acid monohydrate | | |
| Speci | - | : Rat | |
| NOAE | | : 4.000 mg/kg | |
| LOAE | | : 8.000 mg/kg | |
| | ation Route | : Ingestion | |
| Expos | sure time | : 10 Days | |
| Aspir | ation toxicity | | |
| - | assified based on av | ailable information. | |
| Ехре | rience with human | exposure | |
| Comp | oonents: | | |
| Tildip | irosin: | | |
| - | ral Information | : No human information | is available. |
| | | | |



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| ECTION | 12. ECOLOGICAL INFO | ORN | IATION | |
| Ecoto | xicity | | | |
| | oonents: | | | |
| | irosin: | | | |
| - | ty to fish | : | LC50 (Pimephale Exposure time: 96 Method: OECD To | |
| | ty to daphnia and other c invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| Toxici plants | ty to algae/aquatic | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To | |
| | | | NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te | |
| | | | EC50 (Anabaena Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Anabaena mg/l Exposure time: 72 Method: OECD Te | |
| | ctor (Acute aquatic tox- | : | 10 | |
| | ctor (Chronic aquatic | : | 100 | |
| toxicit Toxici | y) ty to microorganisms | : | EC50: 112,4 mg/l Exposure time: 3 Test Type: Respir Method: OECD To | ation inhibition |
| | | | NOEC: 0,23 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te | ation inhibition |
| Citric | acid monohydrate: | | | |
| | ty to fish | : | LC50 (Pimephale Exposure time: 96 | s promelas (fathead minnow)): > 100 mg/l 5 h |
| | ty to daphnia and other | : | EC50 (Daphnia m Exposure time: 24 | agna (Water flea)): 1.535 mg/l ⊧h |



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| Porsi | istence and degradab | ilitv | | |
| | ponents: | incy | | |
| | pirosin: | | | |
| - | egradability | : | Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T | 14,7 % |
| Citric | c acid monohydrate: | | | |
| Biode | egradability | : | Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T | 97 % |
| Bioa | ccumulative potential | | | |
| Com | ponents: | | | |
| Partit | c acid monohydrate: tion coefficient: n- nol/water | : | log Pow: -1,72 | |
| | i lity in soil ata available | | | |
| | r adverse effects ata available | | | |
| SECTION | 13. DISPOSAL CONS | IDEF | RATIONS | |
| - | osal methods e from residues | : | Do not dispose o | f waste into sewer. |

| 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. |
| | | (Tildipirosin) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| Environmentally hazardous | : | yes |



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| ΙΑΤΑ-Ι | DGR | | | | | |
| UN/ID No. | | : | UN 3082 | | | |
| Proper shipping name | | : | Environmentally hazardous substance, liquid, n.o.s. (Tildipirosin) | | | |
| Class | | : | 9 Í Í | | | |
| Packing group | | : | 111 | | | |
| Labels | | : | Miscellaneous | | | |
| Packing instruction (cargo aircraft) | | : | 964 | | | |
| Packing instruction (passen- ger aircraft) | | : | 964 | | | |
| Environmentally hazardous | | : | yes | | | |
| IMDG- | | : | UN 3082 | | | |
| UN number Proper shipping name | | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tildipirosin) | | | |
| Class | | : | 9 | | | |
| Packing group | | : | III | | | |
| Labels | | : | 9 | | | |
| EmS C | | : | 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.

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

| Argentina. Carcinogenic Substances and Agents Registry. | : | Not applicable |
|---|---|----------------|
| Control of precursors and essential chemicals for the preparation of drugs. | : | 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



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| Revision Date Date format | | : | 30.09.2023 dd.mm.yyyy | |
| Furtl | ner information | | | |
| Sources of key data used to : compile the Material Safety Data Sheet | | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ | | |

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.

AR / Z8