



| Vers 7.1 | sion | Revision Date: 2023/09/30 | | S Number: 041-00024 | Date of last issue: 2023/04/04 Date of first issue: 2014/11/04 | | | |
|---------------------|---------------------------------------|--------------------------------------|------------|-------------------------------------|---|--|--|--|
| | | | | | | | | |
| 1. PI | 1. PRODUCT AND COMPANY IDENTIFICATION | | | | | | | |
| Product name : Flor | | | | Florfenicol / Fluni | xin Formulation | | | |
| | Manufa Compa | acturer or supplier's d ny | letai : | i ls MSD | | | | |
| | Addres | S | : | 126 E. Lincoln Av Rahway, New Je | venue rsey U.S.A. 07065 | | | |
| | Teleph | one | : | 908-740-4000 | | | | |
| | Emerge | ency telephone number | • : | 1-908-423-6000 | | | | |
| | E-mail | address | : | EHSDATASTEW | ARD@msd.com | | | |
| | Recom | mended use of the cl | nemi | ical and restriction | ons on use | | | |
| | | mended use tions on use | : | Veterinary produce Not applicable | ct | | | |

2. HAZARDS IDENTIFICATION

| GHS Classification Acute toxicity (Inhalation) | : | Category 4 |
|--|---|---|
| Serious eye damage/eye irri- tation | : | Category 2A |
| Reproductive toxicity | : | Category 1B |
| Specific target organ toxicity - repeated exposure | : | Category 1 (Liver, Brain, Testis, Spinal cord, Blood, gallblad- der) |
| Specific target organ toxicity - repeated exposure | : | Category 2 (Gastrointestinal tract, Kidney) |
| Short-term (acute) aquatic hazard | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 1 |

GHS label elements



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| Haza | rd pictograms | | ! |
| Signa | al word | : Danger | v v |
| Haza | rd statements | H332 Harmfr H360FD May H372 Cause cord, Blood, sure. H373 May ca Kidney) throu | s serious eye irritation. ul if inhaled. y damage fertility. May damage the unborn chi s damage to organs (Liver, Brain, Testis, Spina gallbladder) through prolonged or repeated ex ause damage to organs (Gastrointestinal tract, ugh prolonged or repeated exposure. oxic to aquatic life with long lasting effects. |
| Preca | autionary statements | P202 Do not and understo P260 Do not P264 Wash P270 Do not P271 Use or P273 Avoid | breathe mist or vapours. skin thoroughly after handling. eat, drink or smoke when using this product. nly outdoors or in a well-ventilated area. release to the environment. protective gloves/ protective clothing/ eye protective |
| | | and keep co doctor if you P305 + P351 for several m easy to do. 0 P308 + P313 attention. | I + P338 IF IN EYES: Rinse cautiously with wa ninutes. Remove contact lenses, if present and Continue rinsing. 3 IF exposed or concerned: Get medical advice 3 If eye irritation persists: Get medical advice/ a |
| | | Storage: P405 Store I | ocked up. |
| | | Disposal: P501 Dispos disposal plar | e of contents/ container to an approved waste |

Other hazards which do not result in classification None known.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

| Components | | |
|--|------------|-----------------------|
| Chemical name | CAS-No. | Concentration (% w/w) |
| Florfenicol | 73231-34-2 | >= 10 -< 25 |
| 2-Pyrrolidone | 616-45-5 | >= 10 -< 30 |
| Malic Acid | 6915-15-7 | < 10 |
| 1-deoxy-1-(methylamino)-D-glucitol 2-[2- methyl-3-(perfluoromethyl)anilino]nicotinate | 42461-84-7 | >= 1 -< 2.5 |

4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. |
|-----------------------------|---|---|
| | | When symptoms persist or in all cases of doubt seek medical advice. |
| If inhaled | : | If inhaled, remove to fresh air. |
| | | If not breathing, give artificial respiration. If breathing is difficult, give oxygen. |
| | | 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. |
| In another the constant | | Thoroughly clean shoes before reuse. |
| 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. |
| | | Rinse mouth thoroughly with water. |
| | | Never give anything by mouth to an unconscious person. |
| Most important symptoms | : | Causes serious eye irritation. |
| and effects, both acute and | | Harmful if inhaled. |
| delayed | | May damage fertility. May damage the unborn child. |
| | | Causes damage to organs through prolonged or repeated |
| | | exposure. |
| Protection of first-aiders | : | · · · · · · · · · · · · · · · · · · · |
| | | and use the recommended personal protective equipment |
| | | when the potential for exposure exists (see section 8). |
| Notes to physician | : | Treat symptomatically and supportively. |
| FIREFIGHTING MEASURES | | |

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam



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| | | | | |
| | | | Carbon dioxide (Dry chemical | (CO2) |
| Unsu medi | uitable extinguishing a | : | None known. | |
| Spec fighti | rific hazards during fire- | : | Exposure to com | hbustion products may be a hazard to health. |
| | ardous combustion prod- | : | Carbon oxides Fluorine compou Nitrogen oxides | |
| Spec ods | ific extinguishing meth- | : | cumstances and Use water spray | g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do |
| | cial protective equipment refighters | : | In the event of fir | re, wear self-contained breathing apparatus. otective equipment. |
| 6. ACCID | ENTAL RELEASE MEA | SUF | RES | |
| tive e | onal precautions, protec- equipment and emer- y procedures | : | Follow safe hand | otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8). |
| Envir | ronmental precautions | : | Prevent further le Prevent spreadir barriers). Retain and dispo | the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. should be advised if significant spillages ined. |
| | ods and materials for ainment and cleaning up | : | For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and | ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- l regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements. |

7. HANDLING AND STORAGE

| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|-------------------------|---|--|
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation. |



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| | | | |
| Advice on safe handling | | Handle in accord practice, based o sessment Keep container ti Do not eat, drink | hist or vapours. s. ughly after handling. lance with good industrial hygiene and safety on the results of the workplace exposure as- |
| Condit | tions for safe storage | Store locked up. Keep tightly close | labelled containers. ed. /ell-ventilated place. |
| Materi | als to avoid | Store in accorda | nce with the particular national regulations. the following product types: |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|---|---------------------------|-------------------------------------|--|----------|
| Florfenicol | 73231-34-2 | TWA | 100 µg/m3 (OEB 2) | Internal |
| 1-deoxy-1-(methylamino)-D- glucitol 2-[2-methyl-3- (perfluorome- thyl)anilino]nicotinate | 42461-84-7 | TWA | 40 µg/m3 (OEB 3) | Internal |
| | Further information: Skin | | | |
| | | Wipe limit | 400 µg/100 cm ² | Internal |

Components with workplace control parameters

Engineering measures: Use appropriate engineering controls and manufacturing
technologies to control airborne concentrations (e.g., drip-
less quick connections).
All engineering controls should be implemented by facility
design and operated in accordance with GMP principles to
protect products, workers, and the environment.
Containment technologies suitable for controlling compounds
are required to control at source and to prevent migration of
the compound to uncontrolled areas (e.g., open-face con-
tainment devices).
Minimize open handling.

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec-



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| | | ommended au | idelines, use respiratory protection. |
| | ter type protection | | ticulates and organic vapour type |
| Ma | aterial | : Chemical-resis | stant gloves |
| - | marks rotection | If the work env mists or aeros Wear a facesh | ble gloving. lasses with side shields or goggles. vironment or activity involves dusty conditions, ols, wear the appropriate goggles. hield or other full face protection if there is a rect contact to the face with dusts, mists, or |
| Skin a | and body protection | Additional bod task being per posable suits) | or laboratory coat. y garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. te degowning techniques to remove potentially clothing. |
| Hygie | ne measures | : If exposure to eye flushing sy ing place. When using do Wash contami The effective of engineering co appropriate de industrial hygie | chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|---|---|-------------------|
| Colour | : | yellow |
| Odour | : | No data available |
| Odour 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 |
| | | |



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| | | | | |
| Fl | ammability (liquids) | : | No data available | 9 |
| | oper explosion limit / Upper Immability limit | : | No data available |) |
| | ower explosion limit / Lower Immability limit | : | No data available | |
| Va | apour pressure | : | No data available | 9 |
| Re | elative vapour density | : | No data available | |
| Re | elative density | : | 1.22 | |
| De | ensity | : | No data available |) |
| So | blubility(ies) Water solubility | : | No data available | 9 |
| | artition coefficient: n- :tanol/water | : | Not applicable | |
| | uto-ignition temperature | : | No data available |) |
| De | ecomposition temperature | : | No data available | |
| Vi | scosity Viscosity, kinematic | : | No data available | |
| E> | plosive properties | : | Not explosive | |
| O | xidizing properties | : | The substance o | r mixture is not classified as oxidizing. |
| M | olecular weight | : | No data available |) |
| Pa | article size | : | Not applicable | |
| | | | | |

10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|-------------------------------------|---|--|
| Chemical stability | : | Stable under normal conditions. |
| | : | 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. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation



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| expos | ure | | Skin contact Ingestion Eye contact | |
| | toxicity iul if inhaled. | | | |
| <u>Produ</u> Acute | ict: oral toxicity | : | Acute toxicity esti Method: Calculati | mate: > 2,000 mg/kg on method |
| Acute | inhalation toxicity | : | Acute toxicity esti Exposure time: 4 Test atmosphere Method: Calculati | h dust/mist |
| <u>Comp</u> | oonents: | | | |
| | nicol: | | | <i>"</i> |
| Acute | oral toxicity | : | LD50 (Rat): > 2,0 | 00 mg/kg |
| | | | LD50 (Mouse): > | 2,000 mg/kg |
| | | | LD50 (Dog): > 1,2 | 280 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): > 0.2 Exposure time: 4 | |
| Acute | dermal toxicity | : | Remarks: No data | a available |
| | toxicity (other routes of istration) | : | LD50 (Rat): 1,913 Application Route | |
| | | | LD50 (Mouse): 10 Application Route | |
| 2-Pvri | rolidone: | | | |
| - | oral toxicity | : | LD50 (Rat): > 2,0 Method: OECD T Assessment: The icity | |
| Acute | dermal toxicity | : | LD50 (Rabbit): > Method: OECD T Assessment: The toxicity | |
| Malic | Acid: | | | |
| | oral toxicity | : | LD50 (Rat): 3,500 |) mg/kg |
| Acuto | dermal toxicity | | LD50 (Rabbit): > | 5 000 ma/ka |



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| _ | | | |
| | | | |
| | | Remarks: Base | ed on data from similar materials |
| 1-dec | oxy-1-(methylamino)-D- | glucitol 2-[2-methy | /l-3-(perfluoromethyl)anilino]nicotina |
| Acute | oral toxicity | : LD50 (Rat): 53 | - 157 mg/kg |
| | | LD50 (Mouse): | 176 - 249 mg/kg |
| | | LD50 (Guinea | pig): 488.3 mg/kg |
| | | LD50 (Monkey) |): 300 mg/kg |
| Acute | inhalation toxicity | : LC50 (Rat): < 0 | |
| | | Exposure time: Test atmosphe | |
| | toxicity (other routes of | | .4 - 185.3 mg/kg |
| admir | nistration) | Application Ro | ute: Intraperitoneal |
| | | | 164 - 363 mg/kg ute: Intraperitoneal |
| | | | |
| | corrosion/irritation | | |
| - | | | |
| Not cl | assified based on availa | ble information. | |
| Not cl | lassified based on availa conents: | ble information. | |
| Not cl <u>Comp</u> Florfe | lassified based on availa ponents: enicol: | | |
| Not cl | lassified based on availa <u>conents:</u> enicol: es | ble information. : Rabbit : No skin irritatio | n |
| Not cl <u>Comp</u> Florfe Speci Resul | lassified based on availa <u>conents:</u> enicol: es | : Rabbit | n |
| Not cl <u>Comp</u> Florfe Speci Resul | lassified based on availa <u>conents:</u> enicol: es It rolidone: | : Rabbit | n |
| Not cl <u>Comp</u> Florfe Speci Resul 2-Pyr Speci Metho | lassified based on availa <u>conents:</u> enicol: es lt rolidone: es od | : Rabbit : No skin irritatio | |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci | lassified based on availa <u>conents:</u> enicol: es lt rolidone: es od | : Rabbit : No skin irritatio : Rabbit | iideline 404 |
| Not cl <u>Comp</u> Florfe Speci Resul 2-Pyr Speci Methor Resul | lassified based on availa <u>conents:</u> enicol: es lt rolidone: es od | : Rabbit : No skin irritatio : Rabbit : OECD Test Gu | iideline 404 |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Malic Speci | lassified based on availa <u>conents:</u> enicol: es lt rolidone: es od lt Acid: es | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit | iideline 404 n |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Malic Speci Metho | lassified based on availa <u>conents:</u> enicol: es It rolidone: es od It Acid: es od | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit CECD Test Gu | iideline 404 n iideline 404 |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Malic Speci Metho Resul | lassified based on availa <u>conents:</u> enicol: es t rolidone: es od t Acid: es od t | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit OECD Test Gu No skin irritatio | iideline 404 n iideline 404 n |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Malic Speci Metho | lassified based on availa <u>conents:</u> enicol: es t rolidone: es od t Acid: es od t | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit OECD Test Gu No skin irritatio | iideline 404 n iideline 404 |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Resul Rema 1-dec | lassified based on availa <u>conents:</u> enicol: es it rolidone: es od it Acid: es od it arks pxy-1-(methylamino)-D- | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit OECD Test Gu No skin irritatio Based on data | iideline 404 n iideline 404 n from similar materials |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Methor Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul Resul | lassified based on availa <u>conents:</u> enicol: es it rolidone: es od it Acid: es od it arks pxy-1-(methylamino)-D- es | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit OECD Test Gu No skin irritatio Based on data glucitol 2-[2-methy Rabbit | iideline 404 n iideline 404 n from similar materials /I-3-(perfluoromethyl)anilino]nicotina |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Resul Rema 1-dec | lassified based on availa <u>conents:</u> enicol: es it rolidone: es od it Acid: es od it arks pxy-1-(methylamino)-D- es | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit OECD Test Gu No skin irritatio Based on data | iideline 404 n iideline 404 n from similar materials /I-3-(perfluoromethyl)anilino]nicotina |
| Not cl Comp Florfe Speci Resul 2-Pyr Speci Metho Resul Resul Rema 1-dec Speci Resul | lassified based on availa <u>conents:</u> enicol: es it rolidone: es od it Acid: es od it arks pxy-1-(methylamino)-D- es | Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit OECD Test Gu No skin irritatio Based on data glucitol 2-[2-methy Rabbit Mild skin irritati | iideline 404 n iideline 404 n from similar materials /I-3-(perfluoromethyl)anilino]nicotina |



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| | | | |
| | | | |
| <u>Comp</u> | oonents: | | |
| Florfe | enicol: | | |
| Speci | | : Rabbit | |
| Resul | lt | : Mild eye irritati | on |
| 2-Pyr | rolidone: | | |
| Speci | es | : Rabbit | |
| Resul | lt | : Irritation to eye | es, reversing within 7 days |
| Malic | Acid: | | |
| Speci | | : Rabbit | |
| Resul | | : Irritation to eye | es, reversing within 21 days |
| Metho Rema | | : OECD Test Gu | Indeline 405 from similar materials |
| Reina | | . Daseu un uala | nom similar materials |
| | | | yl-3-(perfluoromethyl)anilino]nicotinat |
| Speci | | : Rabbit | |
| Resul | IL | . Ineversible en | ects on the eye |
| - | iratory or skin sens sensitisation | itisation | |
| Skin s Not cl Resp Not cl | sensitisation lassified based on av iratory sensitisatior lassified based on av | ailable information. | |
| Skin s Not cl Resp Not cl <u>Comp</u> | sensitisation lassified based on av iratory sensitisatior lassified based on av conents: | ailable information. | |
| Skin s Not cl Resp Not cl <u>Comp</u> Florfe | sensitisation lassified based on av iratory sensitisatior lassified based on av ponents: enicol: | ailable information. n ailable information. | |
| Skin s Not cl Resp Not cl <u>Comp</u> Florfe Test | sensitisation lassified based on av iratory sensitisatior lassified based on av ponents: enicol: Type | ailable information. n ailable information. : Maximisation 1 | Γest |
| Skin s Not cl Resp Not cl <u>Comp</u> Florfe | sensitisation lassified based on av iratory sensitisatior lassified based on av conents: enicol: Type es | ailable information. n ailable information. | Fest |
| Skin s Not cl Resp Not cl Comp Florfe Test Speci Resul | sensitisation lassified based on av iratory sensitisatior lassified based on av conents: enicol: Type es lt | ailable information. railable information. : Maximisation 1 : Guinea pig | Fest |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul | sensitisation lassified based on av iratory sensitisatior lassified based on av <u>conents:</u> enicol: Type es tt | railable information. a railable information. : Maximisation T : Guinea pig : negative | |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul 2-Pyr Test T | sensitisation lassified based on av iratory sensitisatior lassified based on av <u>conents:</u> enicol: Type es lt rolidone: Type | railable information. a railable information. : Maximisation T : Guinea pig : negative | Γest ode assay (LLNA) |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul 2-Pyr Test T Expos Speci | sensitisation lassified based on av iratory sensitisation lassified based on av conents: enicol: Type es lt rolidone: Type sure routes es | ailable information. a railable information. : Maximisation T : Guinea pig : negative : Local lymph no | |
| Skin s Not cl Resp Not cl Comp Florfe Test Speci Resul 2-Pyr Test Expos Speci Metho | sensitisation lassified based on av iratory sensitisation lassified based on av ponents: enicol: Type es lt rolidone: Type sure routes es bd | railable information. railable information. : Maximisation 1 : Guinea pig : negative : Local lymph no : Skin contact : Mouse : OECD Test Guite | ode assay (LLNA) |
| Skin s Not cl Resp Not cl Comp Florfe Test Speci Resul 2-Pyr Test Expos Speci Metho Resul | sensitisation lassified based on av iratory sensitisation lassified based on av conents: enicol: Type es lt rolidone: Type sure routes es od lt | railable information. railable information. : Maximisation 1 : Guinea pig : negative : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative | ode assay (LLNA) uideline 429 |
| Skin s Not cl Resp Not cl Comp Florfe Test Speci Resul 2-Pyr Test Expos Speci Metho | sensitisation lassified based on av iratory sensitisation lassified based on av conents: enicol: Type es lt rolidone: Type sure routes es cod | railable information. railable information. : Maximisation 1 : Guinea pig : negative : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative | ode assay (LLNA) |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul Z-Pyr Test T Expos Speci Metho Resul Rema | sensitisation lassified based on av iratory sensitisation lassified based on av <u>conents:</u> enicol: Type es lt rolidone: Type sure routes es od lt arks Acid: | railable information. railable information. : Maximisation T : Guinea pig : negative : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative : Based on data | ode assay (LLNA) uideline 429 from similar materials |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul Z-Pyr Test T Expos Speci Metho Resul Rema | sensitisation lassified based on av iratory sensitisatior lassified based on av <u>conents:</u> enicol: Type es It rolidone: Type sure routes es bd It arks Acid: Type | ailable information. railable information. : Maximisation T : Guinea pig : negative : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative : Based on data : Maximisation T | ode assay (LLNA) uideline 429 from similar materials |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul 2-Pyr Test T Expos Speci Metho Resul Rema Malic Test T | sensitisation lassified based on av iratory sensitisatior lassified based on av <u>conents:</u> enicol: Type es it rolidone: Type sure routes es od it arks Acid: Type sure routes | ailable information. railable information. Maximisation T Guinea pig Cuinea | ode assay (LLNA) uideline 429 from similar materials |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul 2-Pyr Test T Expos Speci Metho Resul Rema Malic Test T Expos Speci | sensitisation lassified based on av iratory sensitisation lassified based on av <u>conents:</u> enicol: Type es it rolidone: Type sure routes es od it arks Acid: Type sure routes es | ailable information. railable information. Maximisation T Guinea pig Cuinea pig | ode assay (LLNA) uideline 429 from similar materials Fest |
| Skin s Not cl Resp Not cl Comp Florfe Test T Speci Resul 2-Pyr Test T Expos Speci Metho Resul Rema Malic Test T | sensitisation lassified based on av iratory sensitisatior lassified based on av <u>conents:</u> enicol: Type es lt rolidone: Type sure routes es od lt arks Acid: Type sure routes es | ailable information. railable information. Maximisation T Guinea pig Cuinea | ode assay (LLNA) uideline 429 from similar materials Fest |



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|----------------|---|-------------------------------|--|
| Rema | ırks | : Based on d | ata from similar materials |
| 1-deo | oxy-1-(methylamino) | -D-glucitol 2-[2-me | thyl-3-(perfluoromethyl)anilino]nicotinate: |
| Test 7 | | : Maximisatio | n Test |
| Expos Speci | sure routes | : Dermal : Guinea pig | |
| | ssment | | use skin sensitisation. |
| Resul | | : negative | |
| | cell mutagenicity | | |
| | assified based on av ponents: | ailable information. | |
| | enicol: | | |
| | toxicity in vitro | : Test Type: I Result: neg | Bacterial reverse mutation assay (AMES) ative |
| | | thesis in ma | DNA damage and repair, unscheduled DNA syn- Immalian cells (in vitro) n: rat hepatocytes ative |
| | | | n vitro mammalian cell gene mutation test n: mouse lymphoma cells ative |
| | | | Chromosome aberration test in vitro n: Chinese hamster ovary cells tive |
| Geno | toxicity in vivo | Species: Mo | Micronucleus test ouse one marrow |
| | | Application Result: neg | Route: Oral |
| 2-Pyr | rolidone: | | |
| Geno | toxicity in vitro | : Test Type: I Result: neg | Bacterial reverse mutation assay (AMES) ative |
| | | Method: OE Result: neg | n vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials |
| | | | Chromosome aberration test in vitro CD Test Guideline 473 ative |
| | toxicity in vivo | | Mammalian erythrocyte micronucleus test (in vivo |



| sion | Revision Date: 2023/09/30 | | DS Number: 041-00024 | Date of last issue: 2023/04/04 Date of first issue: 2014/11/04 |
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| | | | | e ute: Intraperitoneal injection) Test Guideline 474 |
| Malic | Acid: | | | |
| Geno | toxicity in vitro | : | Test Type: Bao Result: negativ | cterial reverse mutation assay (AMES) re |
| | | | Method: OECE Result: negative | ritro mammalian cell gene mutation test D Test Guideline 476 re ed on data from similar materials |
| | | | Result: negativ | romosome aberration test in vitro re ed on data from similar materials |
| | | | Remarks. Dase | |
| | <pre>pxy-1-(methylamino)- toxicity in vitro</pre> | -D-glu : | _ | yl-3-(perfluoromethyl)anilino]nicotinate: cterial reverse mutation assay (AMES) re |
| | | | Test Type: in v Test system: n Result: positive | nouse lymphoma cells |
| | | | | romosomal aberration Chinese hamster ovary cells |
| | | | Test Type: in v Test system: E Result: positive | scherichia coli |
| Geno | toxicity in vivo | : | Test Type: Mic Species: Mous Application Ro Result: negativ | e ute: Oral |
| | cell mutagenicity - | : | Weight of evide cell mutagen. | ence does not support classification as a ger |
| | nogenicity lassified based on ava | ailable | information. | |
| <u>Com</u> | oonents: | | | |
| - | enicol: | | | |
| Speci | es cation Route | : | Rat oral (gavage) | |



| ersion 1 | Revision Date: 2023/09/30 | SDS Number: 28041-00024 | Date of last issue: 2023/04/04 Date of first issue: 2014/11/04 |
|-------------|---------------------------|----------------------------|---|
| | | | |
| Expos | sure time | : 2 Years | |
| Resul | | : negative | |
| | et Organs | : Liver, Testes | |
| raige | a Organs | . LIVEI, TESIES | |
| Speci | es | : Mouse | |
| | cation Route | : oral (gavage) | |
| | sure time | : 2 Years | |
| Resul | | : negative | |
| Targe | et Organs | : Testes, Blood | |
| 2-Pyr | rolidone: | | |
| Speci | es | : Mouse | |
| | cation Route | : Ingestion | |
| | sure time | : 18 month(s) | |
| Resul | | : negative | |
| Rema | arks | | from similar materials |
| 1-deo | oxy-1-(methylamino) | -D-glucitol 2-[2-methy | yl-3-(perfluoromethyl)anilino]nicotinat |
| Speci | , | : Rat | |
| | cation Route | : oral (feed) | |
| | sure time | : 104 w | |
| LOAE | | : 2 mg/kg body v | veight |
| Resul | | : negative | olgin |
| | et Organs | : Gastrointestina | l tract |
| Rema | | | city observed in testing |
| Speci | 85 | : Mouse | |
| | cation Route | : oral (feed) | |
| | sure time | : 97 w | |
| NOAE | | : 0.6 mg/kg body | / weight |
| Resul | | : negative | weight |
| | et Organs | : Gastrointestina | al tract |
| Rema | | | city observed in testing |
| Remo | | . Orgnineant toxi | city observed in testing |
| • | oductive toxicity | | |
| - | | damage the unborn chi | ild. |
| | oonents: | | |
| | enicol: | | |
| Effect | s on fertility | | p-generation reproduction toxicity study |
| | | Species: Rat | |
| | | Application Ro | |
| | | | L: 12 mg/kg body weight |
| | | Result: decreas | sed pup survival, reduced lactation |
| Effect | s on foetal develop- | | bryo-foetal development |
| ment | | Species: Rat | |
| | | | ty Maternal: NOAEL: 4 mg/kg body weig |
| | | | toxicity: LOAEL: 40 mg/kg body weight |
| | | Result: No tera | togenic effects, Fetotoxicity |
| | | | |



| ersion I | Revision Date: 2023/09/30 | SDS N 28041- | | Date of last issue: 2023/04/04 Date of first issue: 2014/11/04 |
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| | | | | |
| | | Rer es. | narks: The | effects were seen only at maternally toxic do |
| | | Spe App Ger Em | ecies: Mous blication Ro neral Toxic | oute: oral (gavage) ity Maternal: NOAEL: 120 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight |
| Repro sessr | oductive toxicity - As- nent | ferti | ility, based erse effect | e of adverse effects on sexual function and on animal experiments., Some evidence of s on development, based on animal experi- |
| 2-Pyr | rolidone: | | | |
| Effect | ts on fertility | Spe App Res | ecies: Rat blication Ro sult: positiv | e-generation reproduction toxicity study oute: Ingestion e ed on data from similar materials |
| Effect ment | ts on foetal develop- | Spe App | ecies: Rat | nbryo-foetal development oute: Ingestion e |
| Repro sessr | oductive toxicity - As- nent | ity, | based on a | e of adverse effects on sexual function and fe animal experiments., Clear evidence of advers elopment, based on animal experiments. |
| Malic | Acid: | | | |
| Effect | ts on fertility | Spe App | ecies: Rat | o-generation reproduction toxicity study oute: Ingestion ve |
| Effect ment | ts on foetal develop- | Spe App | ecies: Rat | nbryo-foetal development oute: Ingestion ve |
| 1-dec | oxy-1-(methylamino)-I | D-glucitol | 2-[2-meth | yl-3-(perfluoromethyl)anilino]nicotinate: |
| | ts on fertility | : Tes Spe App Ger Syn Res | et Type: Tw ecies: Rat blication Ro neral Toxic nptoms: No | vo-generation reproduction toxicity study oute: Oral ity - Parent: LOAEL: 1 - 1.5 mg/kg body weigh o foetal abnormalities ects on fertility and early embryonic develop- |



| Versi 7.1 | on Revision Date: 2023/09/30 | | S Number: 041-00024 | Date of last issue: 2023/04/04 Date of first issue: 2014/11/04 |
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| | | | | |
| | Effects on foetal develop- nent | : | Embryo-foetal tox Result: Embryotox spring were detect Test Type: Embry Species: Rabbit Application Route General Toxicity M Embryo-foetal tox Result: Embryotox | : Oral Maternal: LOAEL: 2 mg/kg body weight icity: NOAEL: 2 mg/kg body weight kic effects and adverse effects on the off- ted only at high maternally toxic doses o-foetal development |
| | STOT - single exposure Not classified based on availa | ble | information. | |
| <u>(</u> | Components: | | | |
| | I -deoxy-1-(methylamino)-D- Assessment | glu : | citol 2-[2-methyl-3 May cause respira | -(perfluoromethyl)anilino]nicotinate: atory irritation. |
| (| onged or repeated exposure. | | | al cord, Blood, gallbladder) through pro- Kidney) through prolonged or repeated ex- |
| <u>(</u> | Components: | | | |
| I | Florfenicol: | | | |
| | Farget Organs Assessment | : | | s, Spinal cord, Blood, gallbladder o organs through prolonged or repeated |
| | -deoxy-1-(methylamino)-D- | glu | citol 2-[2-methyl-3 | -(perfluoromethyl)anilino]nicotinate: |
| - | Farget Organs Assessment | : | Gastrointestinal tr | act, Kidney, Blood o organs through prolonged or repeated |
| F | Repeated dose toxicity | | | |
| <u>(</u> | Components: | | | |
| I | Florfenicol: | | | |
| S | Species | : | Dog | |
| | NOAEL Exposure time | : | 3 mg/kg 13 Weeks | |
| | | | 15 / 24 | |



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| | | | | |
| Targe | et Organs | : Liver, Testis | , Brain, Spinal cord | |
| Spec | ies | : Mouse | | |
| NOA | | : 200 mg/kg | | |
| | sure time | : 13 Weeks | | |
| large | et Organs | : Liver, Testis | | |
| Spec | ies | : Rat | | |
| NOA | | : 30 mg/kg | | |
| | sure time | : 13 Weeks | | |
| Targe | et Organs | : Liver, Testis | | |
| Spec | ies | : Dog | | |
| NOA | | : 3 mg/kg | | |
| LOAE | | : 12 mg/kg | | |
| | sure time | : 52 Weeks | | |
| large | et Organs | : Liver, gallbla | ldder | |
| Spec | ies | : Rat | | |
| NOA | | : 1 mg/kg | | |
| LOAE | | : 3 mg/kg | | |
| | sure time | : 52 Weeks | | |
| large | et Organs | : Testis | | |
| 2-Py | rrolidone: | | | |
| Spec | | : Rat | | |
| NOA | | : 207 mg/kg | | |
| | cation Route | : Ingestion | | |
| Expo Meth | sure time | : 3 Months : OECD Test | Guideline 408 | |
| Meur | ou | . OECD Test | Guideline 400 | |
| | c Acid: | | | |
| Spec | | : Rat | | |
| NOA | | : > 250 mg/kg | | |
| | cation Route | : Ingestion : 104 Weeks | | |
| Expo | sure time | 104 Weeks | | |
| 1-deo | oxy-1-(methylamino) | -D-glucitol 2-[2-me | thyl-3-(perfluoromethyl)anilino]nicotinate | : |
| Spec | | : Rat | | |
| NOA | | : 2 mg/kg | | |
| LOAE | | : < 4 mg/kg | | |
| | cation Route sure time | : Oral : 6 w | | |
| | et Organs | : Gastrointest | inal tract | |
| S | ios | : Rat | | |
| Spec NOA | | : 1 mg/kg | | |
| | cation Route | : Oral | | |
| | sure time | : 1 y | | |
| | et Organs | | inal tract, Kidney | |
| 2 | | | | |



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| Expo Targe LOAE Appli Expo Symp Spec LOAE | EL cation Route sure time et Organs ies EL cation Route sure time otoms | | Monkey 15 mg/kg Oral 90 d Gastrointestina Rabbit 80 mg/kg Dermal 21 d Severe irritation Dog 11 mg/kg Oral | |
| Targe | sure time et Organs otoms | : | 9 d Gastrointestina Vomiting | I tract |
| • | ration toxicity lassified based on ava | ailable | information. | |
| | rience with human e | | | |

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:

| Inhalation | : Symptoms: respiratory tract irritation |
|--------------|---|
| Skin contact | : Symptoms: Skin irritation |
| Eye contact | : Symptoms: Severe irritation |
| Ingestion | : Symptoms: Gastrointestinal disturbance, bleeding, hyperten- |
| | sion, Kidney disorders |

12. ECOLOGICAL INFORMATION

| Ecotoxicity | |
|---|---|
| Components: | |
| Florfenicol: | |
| Toxicity to fish : | LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11 |
| | LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11 |
| Toxicity to daphnia and other : aquatic invertebrates | EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |



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| | | | | |
| | Toxicity to algae/aquatic plants | | EC50 (Pseudokiro mg/l Exposure time: 14 Method: FDA 4.01 | |
| | | | NOEC (Pseudokir mg/l Exposure time: 14 Method: FDA 4.01 | chneriella subcapitata (green algae)): 2.9 d |
| | | | IC50 (Skeletonem Exposure time: 72 Method: ISO 1025 | |
| | | | NOEC (Skeletone Exposure time: 72 Method: ISO 1025 | |
| | | | EC50 (Lemna gib Exposure time: 7 Method: OECD Te | |
| | | | NOEC (Lemna gib Exposure time: 7 Method: OECD Te | |
| | | | EC50 (Navicula p Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Navicula p Exposure time: 72 Method: OECD Te | |
| | | | EC50 (Anabaena Exposure time: 72 Method: OECD Te | flos-aquae): 0.066 mg/l ? h est Guideline 201 |
| | | | NOEC (Anabaena Exposure time: 72 Method: OECD Te | |
| | -Factor (Acute aquatic tox- | : | 10 | |
| Тс | ty) oxicity to fish (Chronic tox- ty) | : | NOEC (Pimephale Exposure time: 32 Method: OECD Te | |
| ac | oxicity to daphnia and other quatic invertebrates (Chron- toxicity) | : | NOEC (Daphnia r Exposure time: 21 Method: OECD Te | |



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| | Factor (Chronic aquatic kicity) | : | 10 | |
| 2- | Pyrrolidone: | | | |
| | exicity to fish | : | LC50 (Danio rerio Exposure time: 96 Method: OECD To | |
| | exicity to daphnia and other uatic invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): > 500 mg/l 3 h |
| | exicity to algae/aquatic | : | ErC50 (Desmode Exposure time: 72 | smus subspicatus (green algae)): > 500 mg/l 2 h |
| | | | EC10 (Desmodes Exposure time: 72 | mus subspicatus (green algae)): 22.2 mg/l 2 h |
| Тс | oxicity to microorganisms | : | EC50: > 1,000 mg Exposure time: 30 Method: OECD To |) min |
| M | alic Acid: | | | |
| | exicity to fish | : | Exposure time: 96 Method: OECD To | |
| | exicity to daphnia and other uatic invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 240 mg/l 3 h |
| | oxicity to algae/aquatic ants | : | mg/l Exposure time: 72 Test substance: N Method: OECD To | leutralised product |
| | | | mg/l Exposure time: 72 Test substance: N Method: OECD To | leutralised product |
| Τc | exicity to microorganisms | : | EC50: > 100 mg/l Exposure time: 3 Method: OECD To Remarks: Based o | h |

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:



| ersion .1 | Revision Date: 2023/09/30 | | S Number: 041-00024 | Date of last issue: 2023/04/04 Date of first issue: 2014/11/04 |
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| | | | | |
| Toxici | ity to fish | : | LC50 (Lepomis Exposure time: Method: FDA 4 | |
| | | | LC50 (Oncorhy Exposure time: Method: FDA 4 | |
| | ity to daphnia and other ic invertebrates | : | EC50 (Daphnia Exposure time: Method: FDA 4 | |
| Toxici plants | ity to algae/aquatic | : | NOEC (Microcy Exposure time: Method: FDA 4 | |
| | | | NOEC (Selena Exposure time: | strum capricornutum (green algae)): 96 mg 12 d |
| Persi | stence and degradabil | ity | | |
| Comp | oonents: | | | |
| 2-Pyr | rolidone: | | | |
| Biode | gradability | : | | biodegradable. ed on data from similar materials |
| Malic | Acid: | | | |
| Biode | gradability | : | Method: OECD | biodegradable. Test Guideline 301C ed on data from similar materials |
| 1-deo | oxy-1-(methylamino)-D- | -glu | citol 2-[2-methy | vl-3-(perfluoromethyl)anilino]nicotinate: |
| Stabil | ity in water | : | Hydrolysis: 0 % | 5(28 d) |
| Bioac | ccumulative potential | | | |
| Comp | oonents: | | | |
| Florfe | enicol: | | | |
| | ion coefficient: n- ol/water | : | log Pow: 0.373 pH: 7 | |
| 2-Pyr | rolidone: | | | |
| Partiti | ion coefficient: n- ol/water | : | log Pow: -0.71 Method: OECD | Test Guideline 107 |
| | Acid: | | | |
| Partiti | ion coefficient: n- | : | log Pow: -1.26 | |



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| | | | |
| octan | ol/water | | |
| | - / | alusital 2 [2 math | nyl-3-(perfluoromethyl)anilino]nicotinate: |
| Partiti | on coefficient: n- ol/water | : log Pow: 1.34 | |
| Mobil | ity in soil | | |
| Com | oonents: | | |
| Florfe | enicol: | | |
| | oution among environ- al compartments | : Koc: 52 Method: FDA | 3.08 |
| | | | |
| | , | | nyl-3-(perfluoromethyl)anilino]nicotinate: |
| | oution among environ- al compartments | : log Koc: 1.92 | |
| Other | adverse effects | | |
| No da | ita available | | |
| | SAL CONSIDERATION | 15 | |
| Dispo | e from residues | : Do not dispos | se of waste into sewer. |
| Dispo Waste | osal methods | Do not dispose Dispose of in Empty contain dling site for r | accordance with local regulations. |
| Dispo Waste Conta | osal methods e from residues | Do not dispose Dispose of in Empty contain dling site for r If not otherwise | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. |
| Dispo Waste Conta | osal methods e from residues aminated packaging | Do not dispose Dispose of in Empty contain dling site for r If not otherwise | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. |
| Dispo Waste Conta . TRANS | osal methods e from residues aminated packaging SPORT INFORMATION national Regulations | Do not dispose Dispose of in Empty contain dling site for r If not otherwise | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. |
| Dispo Waste Conta . TRANS Interr UNRT | osal methods e from residues aminated packaging SPORT INFORMATION national Regulations | Do not dispos Dispose of in Empty contain dling site for r If not otherwis UN 3082 ENVIRONME | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UNRT UNRT | osal methods e from residues aminated packaging SPORT INFORMATION national Regulations IDG umber er shipping name | Do not dispose Dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) | accordance with local regulations. hers should be taken to an approved waste han ecycling or disposal. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class | osal methods e from residues uminated packaging SPORT INFORMATION national Regulations TDG umber er shipping name | Do not dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 | accordance with local regulations. hers should be taken to an approved waste han ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class | osal methods e from residues aminated packaging SPORT INFORMATION national Regulations FDG umber er shipping name | Do not dispose Dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class Packi Label | osal methods e from residues aminated packaging SPORT INFORMATION national Regulations FDG umber er shipping name | Do not dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class Packi Label | e from residues aminated packaging SPORT INFORMATION national Regulations TDG umber er shipping name | Do not dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III 9 | accordance with local regulations. hers should be taken to an approved waste han ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE | bsal methods bsal methods b from residues aminated packaging SPORT INFORMATION bational Regulations TDG umber br shipping name ng group s bmmentally hazardous -DGR D No. | Do not dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III 9 yes UN 3082 | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. Se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE | bsal methods bsal methods b from residues aminated packaging SPORT INFORMATION bational Regulations TDG amber br shipping name ng group s bmmentally hazardous bGR | Do not dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmenta | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta . TRANS Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE | SPORT INFORMATION SPORT INFORMATION Antional Regulations TDG umber er shipping name ng group s DGR D No. er shipping name | Do not dispose of in Empty contain dling site for r If not otherwise UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III 9 yes UN 3082 | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. Se specified: Dispose of as unused product. |
| Dispo Waste Conta Conta . TRANS Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID Prope Class Packi | e from residues aminated packaging SPORT INFORMATION national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name | Do not dispose of in Empty contain dling site for r If not otherwis UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmenta (Florfenicol) 9 III | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. se specified: Dispose of as unused product. |
| Dispo Waste Conta Conta . TRANS Interr UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label | e from residues aminated packaging SPORT INFORMATION national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name | Do not dispose of in Empty contain dling site for r If not otherwis UN 3082 ENVIRONME N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmenta (Florfenicol) 9 | accordance with local regulations. hers should be taken to an approved waste har ecycling or disposal. se specified: Dispose of as unused product. "NTALLY HAZARDOUS SUBSTANCE, LIQUID ally hazardous substance, liquid, n.o.s. |





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| | | | | |
| | | | | |
| | raft) | | 004 | |
| | king instruction (passen- aircraft) | : | 964 | |
| • | vironmentally hazardous | : | yes | |
| IMC |)G-Code | | | |
| | number | : | UN 3082 | |
| Pro | per shipping name | : | ENVIRONMENT/ N.O.S. (Florfenicol) | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Cla | SS | : | 9 | |
| Pac | king group | : | | |
| Lab | els | : | 9 | |
| Em | S Code | : | F-A, S-F | |
| Mai | rine pollutant | : | yes | |
| Tro | nonort in bulk according | • • • | Annov II of MADE | OI 72/79 and the IPC Code |

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.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

| Hazardous substances that must be registered | : | Not applicable |
|--|---|------------------|
| | • | i tot upplioublo |

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

| Hazardous substances approved for use | : | Not applicable |
|---------------------------------------|---|----------------|
| Prohibited substances | : | Not applicable |
| Restricted substances | : | Not applicable |

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

| Type of hazardous materials subject to distribution and | : | Not applicable |
|---|---|----------------|
| control, Annex I | | |

Type of hazardous materials subject to distribution and : Not applicable



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| cont | trol, Annex II | | | |
| CON | | | | |
| | | odu | - | the following inventories: |
| AIC | S | : | not determined | |
| DSL | - | : | not determined | |
| IEC | SC | : | not determined | |
| 16. OTH | | | | |
| Rev | ision Date | : | 2023/09/30 | |
| Fur | ther information | | | |
| | rces of key data used to pile the Safety Data et | : | | data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/ |
| Date | e format | : | yyyy/mm/dd | |
| Full | text of other abbreviati | ons | i | |

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 Sub-



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stances 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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