## Florfenicol / Flunixin Injection Formulation

| Version | Revision Date: | SDS Number: | Date of last issue: 04.04.2023 |
| :--- | :--- | :--- | :--- |
| 2.1 | 30.09 .2023 | $10846421-00003$ | Date of first issue: 06.09.2022 |

## SECTION 1. IDENTIFICATION

Product name : Florfenicol / Flunixin Injection Formulation

Manufacturer or supplier's details

| Company | $:$ MSD |
| :--- | :--- |
| Address | $:$Talcahuano 750, 6th floor, Ciudad Autonoma <br> Buenos Aires, Argentina C1013AAP |
| Telephone | $: 908-740-4000$ |
| Emergency telephone | $: 1-908-423-6000$ |
| E-mail address | $:$ EHSDATASTEWARD@msd.com |

Recommended use of the chemical and restrictions on use
$\begin{array}{ll}\text { Recommended use } & : \text { Veterinary product } \\ \text { Restrictions on use } & : \text { Not applicable }\end{array}$

## SECTION 2. HAZARDS IDENTIFICATION

## GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye : Category 2A irritation

Reproductive toxicity : Category 1B
Specific target organ toxicity - : Category 3 single exposure

Specific target organ toxicity - : Category 1 (Liver, Brain, Testis, Spinal cord, Blood, repeated exposure gallbladder)

Specific target organ toxicity - : Category 2 (Gastrointestinal tract, Kidney) repeated exposure

Short-term (acute) aquatic : Category 1 hazard

Long-term (chronic) aquatic : Category 1 hazard

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## GHS label elements

Hazard pictograms


Signal Word
Hazard Statements
: Danger
: H302 + H332 Harmful if swallowed or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360Df May damage the unborn child. Suspected of damaging fertility.
H372 Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated exposure.
H373 May cause damage to organs (Gastrointestinal tract, Kidney) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

## Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

## Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

## Storage:

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P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards which do not result in classification

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Components

| Chemical name | CAS-No. | Concentration (\% w/w) |
| :--- | :--- | :---: |
| Florfenicol | $73231-34-2$ | $>=30-<50$ |
| N-Methyl-2-pyrrolidone | $872-50-4$ | $>=20-<30$ |
| 1-deoxy-1-(methylamino)-D-glucitol 2-[2- <br> methyl-3-(perfluoromethyl)anilino]nicotinate | $42461-84-7$ | $>=2,5-<3$ |
| Citric acid | $77-92-9$ | $>=1-<5$ |

## SECTION 4. FIRST AID MEASURES

| General advice | In the case of accident or if you feel unwell, seek medical advice immediately. <br> 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 plenty of water for at least 15 minutes while removing contaminated clothing and shoes. <br> Get medical attention. <br> Wash clothing before reuse. <br> 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. <br> If easy to do, remove contact lens, if worn. <br> Get medical attention. |
| If swallowed | If swallowed, DO NOT induce vomiting. <br> Get medical attention. <br> Rinse mouth thoroughly with water. <br> Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | Harmful if swallowed or if inhaled. <br> Causes skin irritation. <br> Causes serious eye irritation. <br> May cause respiratory irritation. <br> May damage the unborn child. Suspected of damaging fertility. <br> Causes damage to organs through prolonged or repeated exposure. |

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| Protection of first-aiders | $:$First Aid responders should pay attention to self-protection, <br> and use the recommended personal protective equipment |
| :--- | :--- | :--- |
| when the potential for exposure exists (see section 8). |  |

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
Unsuitable extinguishing
media
Specific hazards during fire : Exposure to combustion products may be a hazard to health.
fighting
Hazardous combustion prod- : Carbon oxides
ucts
Fluorine compounds
Nitrogen oxides (NOx)
Specific extinguishing meth- : Use extinguishing measures that are appropriate to local cirods 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.
Evacuate area.
Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for fire-fighters

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.
tive equipment and emergency procedures

Environmental precautions

Methods and materials for containment and cleaning up

Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

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.
: 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 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.

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## SECTION 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. |
| Advice on safe handling | Do not get on skin or clothing. |
|  | Do not breathe mist or vapors. |
|  | Do not swallow. |
|  | Do not get in eyes. |
|  | Wash skin thoroughly after handling. |
|  | Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure |
|  | assessment |
|  | Keep container tightly closed. |
|  | Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. |
|  | Do not eat, drink or smoke when using this product. |
|  | Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | Keep in properly labeled containers. |
|  | Store locked up. |
|  | Keep tightly closed. |
|  | Keep in a cool, well-ventilated place. |
|  | Store in accordance with the particular national regulations. |
| Materials to avoid | Do not store with the following product types: |
|  | Strong oxidizing agents |
|  | Self-reactive substances and mixtures |
|  | Organic peroxides |
|  | Explosives |
|  | Gases |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type <br> (Form of <br> exposure) | Control parame- <br> ters / Permissible <br> concentration | Basis |
| :--- | :--- | :--- | :--- | :--- |
| Florfenicol | $73231-34-2$ | TWA | $100 \mu \mathrm{~g} / \mathrm{m3}$ (OEB <br> $2)$ | Internal |
| 1-deoxy-1-(methylamino)-D- <br> glucitol 2-[2-methyl-3- <br> (perfluorome- <br> thyl)anilino]nicotinate | $42461-84-7$ | TWA | $40 \mu \mathrm{~g} / \mathrm{m3}$ (OEB 3) | Internal |
|  |  |  |  |  |
|  | Wipe limit |  |  |  |

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Biological occupational exposure limits

| Components | CAS-No. | Control <br> parameters | Biological <br> specimen | Sam- <br> pling <br> time | Permissible <br> concentra- <br> tion | Basis |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| N-Methyl-2-pyrrolidone | $872-50-4$ | 5-Hydroxy- <br> N-methyl-2- <br> pyrrolidone | Urine | End of <br> shift (As <br> soon as <br> possible <br> after <br> exposure <br> ceases) | $100 \mathrm{mg} / \mathrm{l}$ | ACGIH <br> BEI |
|  |  | Use appropriate engineering controls and manufacturing <br> technologies to control airborne concentrations (e.g., drip- <br> 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 |  |  |  |  |  |  |
| containment devices). |  |  |  |  |  |  |

## Personal protective equipment

Respiratory pro
Filter type
Hand protectio
Material : Chemical-resistant gloves
Remarks : Consider double gloving.
Eye protection
: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection : Work uniform or laboratory coat.
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Use appropriate degowning techniques to remove potentially contaminated clothing.
Hygiene measures
: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the

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use of administrative controls.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | liquid |
| :---: | :---: |
| Color | light yellow |
|  | Straw-colored |
| Odor | No data available |
| Odor Threshold | No data available |
| pH | 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 |
| Relative vapor density | No data available |
| Relative density | No data available |
| Density | No data available |
| Solubility(ies) |  |
| Water solubility | No data available |
| Partition coefficient: noctanol/water | Not applicable |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity Viscosity, kinematic | No data available |

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| Explosive properties |  | $:$ |
|  | Not explosive |  |

## SECTION 10. STABILITY AND REACTIVITY

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

## SECTION 11. TOXICOLOGICAL INFORMATION

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

## Acute toxicity

Harmful if swallowed or if inhaled.

## Product:

Acute oral toxicity : Acute toxicity estimate: $1.435 \mathrm{mg} / \mathrm{kg}$

Acute inhalation toxicity : Acute toxicity estimate: $1,86 \mathrm{mg} / \mathrm{l}$
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

## Components:

Florfenicol:

| Acute oral toxicity | $:$ LD50 (Rat): $>2.000 \mathrm{mg} / \mathrm{kg}$ |  |
| :--- | :--- | :--- |
|  | LD50 (Mouse): $>2.000 \mathrm{mg} / \mathrm{kg}$ |  |
|  | LD50 (Dog): $>1.280 \mathrm{mg} / \mathrm{kg}$ |  |
|  |  |  |
| Acute inhalation toxicity | $:$ | LC50 (Rat): $>0,28 \mathrm{mg} / \mathrm{l}$ |
|  | Exposure time: 4 h |  |
| Acute dermal toxicity | $:$ | Remarks: No data available |

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| Acute toxicity (other routes of administration) | LD50 (Rat): $1.913-2.253 \mathrm{mg} / \mathrm{kg}$ Application Route: Intraperitoneal |
| :---: | :---: |
|  | LD50 (Mouse): $100 \mathrm{mg} / \mathrm{kg}$ Application Route: Intravenous |
| N-Methyl-2-pyrrolidone: |  |
| Acute oral toxicity | LD50 (Rat): $4.150 \mathrm{mg} / \mathrm{kg}$ |
| Acute inhalation toxicity | LC50 (Rat): > 5,1 mg/l |
|  | Exposure time: 4 h |
|  | Test atmosphere: dust/mist |
|  | Method: OECD Test Guideline 403 |
| Acute dermal toxicity | LD50 (Rat): > $5.000 \mathrm{mg} / \mathrm{kg}$ |

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
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): < 0,52 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute toxicity (other routes of : LD50 (Rat): 59,4-185,3 mg/kg administration)

Application Route: Intraperitoneal

LD50 (Mouse): 164-363 mg/kg
Application Route: Intraperitoneal

Citric acid:
Acute oral toxicity : LD50 (Mouse): $5.400 \mathrm{mg} / \mathrm{kg}$
Acute dermal toxicity : LD50 (Rat): > $2.000 \mathrm{mg} / \mathrm{kg}$ Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

## Skin corrosion/irritation

Causes skin irritation.

## Components:

Florfenicol:

| Species | $:$ Rabbit |
| :--- | :--- |
| Result | $:$ No skin irritation |

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## N-Methyl-2-pyrrolidone:

Result : Skin irritation

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Species : Rabbit
Result : Mild skin irritation

## Citric acid:

| Species | $:$ Rabbit |
| :--- | :--- |
| Method | $:$ OECD Test Guideline 404 |

Result : No skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

## Components:

Florfenicol:

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

## N-Methyl-2-pyrrolidone:

| Species | $:$ Rabbit |
| :--- | :--- |
| Result | $:$ Irritation to eyes, reversing within 21 days |

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Species : Rabbit
Result : Irreversible effects on the eye

Citric acid:
Species : Rabbit
Result : Irritation to eyes, reversing within 21 days
Method : OECD Test Guideline 405

## Respiratory or skin sensitization

## Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.
Components:
Florfenicol:
Test Type : Maximization Test
Species : Guinea pig
Result : negative

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## N-Methyl-2-pyrrolidone:

| Test Type | $:$ Local lymph node assay (LLNA) |
| :--- | :--- |
| Routes of exposure | $:$ Skin contact |
| Species | $:$ Mouse |
| Method | OECD Test Guideline 429 |
| Result | $:$ negative |
| Remarks | Based on data from similar materials |

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

Test Type
Routes of exposure
Species
Assessment
Result

Maximization Test
Dermal
: Guinea pig
: Does not cause skin sensitization. negative

## Germ cell mutagenicity

Not classified based on available information.

## Components:

## Florfenicol:

Genotoxicity in vitro

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: Oral
Result: negative

## N-Methyl-2-pyrrolidone:

Genotoxicity in vitro
: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471
Result: negative
Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476
Result: negative

Test Type: DNA damage and repair, unscheduled DNA syn-

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|  | thesis in mammalian cells (in vitro) Result: negative |
| :---: | :---: |
| Genotoxicity in vivo | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) <br> Species: Mouse <br> Application Route: Ingestion <br> Method: OECD Test Guideline 474 <br> Result: negative |
|  | Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) <br> Species: Hamster <br> Application Route: Ingestion <br> Method: OECD Test Guideline 475 <br> Result: negative |
| 1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: |  |
| Genotoxicity in vitro | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
|  | Test Type: in vitro test Test system: mouse lymphoma cells Result: positive |
|  | Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: positive |
|  | Test Type: in vitro test Test system: Escherichia coli Result: positive |
| Genotoxicity in vivo | Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative |
| Germ cell mutagenicity Assessment | Weight of evidence does not support classification as a germ cell mutagen. |
| Citric acid: |  |
| Genotoxicity in vitro | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
|  | Test Type: in vitro micronucleus test Result: positive |
|  | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
| Genotoxicity in vivo | Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) <br> Species: Rat |

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## Application Route: Ingestion

Result: negative

## Carcinogenicity

Not classified based on available information.

## Components:

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

## N -Methyl-2-pyrrolidone:

| Species | $:$ | Rat |
| :--- | :--- | :--- |
| Application Route | $:$ | Ingestion |
| Exposure time | $:$ | 2 Years |
| Result | $:$ negative |  |
| Species | $:$ Rat |  |
| Application Route | $:$ | inhalation (vapor) |
| Exposure time | $:$ | 2 Years |
| Result | $:$ | negative |

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Species : Rat
Application Route : oral (feed)
Exposure time : 104 w
LOAEL : $2 \mathrm{mg} / \mathrm{kg}$ body weight
Result : negative
Target Organs : Gastrointestinal tract
Remarks : Significant toxicity observed in testing
Species : Mouse
Application Route : oral (feed)
Exposure time : 97 w
NOAEL : $0,6 \mathrm{mg} / \mathrm{kg}$ body weight
Result : negative
Target Organs : Gastrointestinal tract
Remarks : Significant toxicity observed in testing

## Reproductive toxicity

May damage the unborn child. Suspected of damaging fertility.

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## Components:

## Florfenicol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat
Application Route: Oral
Fertility: LOAEL: $12 \mathrm{mg} / \mathrm{kg}$ body weight
Result: decreased pup survival, reduced lactation
Effects on fetal development : Test Type: Embryo-fetal development Species: Rat General Toxicity Maternal: NOAEL: $4 \mathrm{mg} / \mathrm{kg}$ body weight Embryo-fetal toxicity.: LOAEL: $40 \mathrm{mg} / \mathrm{kg}$ body weight Result: No teratogenic effects., Fetotoxicity.
Remarks: The effects were seen only at maternally toxic doses.

Test Type: Embryo-fetal development Species: Mouse
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: $120 \mathrm{mg} / \mathrm{kg}$ body weight Embryo-fetal toxicity.: LOAEL: $40 \mathrm{mg} / \mathrm{kg}$ body weight Result: Fetotoxicity.

Reproductive toxicity - As- : Some evidence of adverse effects on sexual function and sessment fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

## N-Methyl-2-pyrrolidone:

| Effects on fertility | Test Type: Two-generation reproduction toxicity study Species: Rat <br> Application Route: Ingestion <br> Method: OECD Test Guideline 416 <br> Result: negative |
| :---: | :---: |
| Effects on fetal development | Test Type: Embryo-fetal development Species: Rat <br> Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive |
|  | Test Type: Fertility/early embryonic development Species: Rat Application Route: inhalation (vapor) Result: positive |
|  | Test Type: Embryo-fetal development Species: Rabbit Application Route: Ingestion Result: positive |
| Reproductive toxicity - Assessment | Clear evidence of adverse effects on development, based on animal experiments. |

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| Effects on fertility | Test Type: Two-generation reproduction toxicity study Species: Rat <br> Application Route: Oral General Toxicity Parent: LOAEL: $1-1,5 \mathrm{mg} / \mathrm{kg}$ body weight Symptoms: No fetal abnormalities. <br> Result: No effects on fertility and early embryonic development were detected. |
| :---: | :---: |
| Effects on fetal development | Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: LOAEL: $2 \mathrm{mg} / \mathrm{kg}$ body weight Embryo-fetal toxicity.: NOAEL: $2 \mathrm{mg} / \mathrm{kg}$ body weight Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses |
|  | Test Type: Embryo-fetal development <br> Species: Rabbit <br> Application Route: Oral <br> General Toxicity Maternal: LOAEL: $3 \mathrm{mg} / \mathrm{kg}$ body weight <br> Embryo-fetal toxicity.: NOAEL: $3 \mathrm{mg} / \mathrm{kg}$ body weight <br> Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses |

## Citric acid:

| Effects on fetal development : | Test Type: One-generation reproduction toxicity study |
| :--- | :--- |
|  | Species: Rat |
|  | Application Route: Ingestion |
|  | Result: negative |

## STOT-single exposure

May cause respiratory irritation.

## Components:

N-Methyl-2-pyrrolidone:
Assessment : May cause respiratory irritation.

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Assessment : May cause respiratory irritation.

Citric acid:
Assessment : May cause respiratory irritation.

## STOT-repeated exposure

Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated exposure.
May cause damage to organs (Gastrointestinal tract, Kidney) through prolonged or repeated exposure.

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## Components:

Florfenicol:
Target Organs : Liver, Brain, Testis, Spinal cord, Blood, gallbladder
Assessment : Causes damage to organs through prolonged or repeated exposure.

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

Target Organs
Assessment
: Gastrointestinal tract, Kidney, Blood
: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

## Components:

## Florfenicol:

| Species | $:$ | Dog |
| :--- | :---: | :--- |
| NOAEL | $:$ | $3 \mathrm{mg} / \mathrm{kg}$ |
| Exposure time | $:$ | 13 Weeks |
| Target Organs | $:$ | Liver, Testis, Brain, Spinal cord |
|  | $:$ | Mouse |
| Species | $:$ | $200 \mathrm{mg} / \mathrm{kg}$ |
| NOAEL | $:$ | 13 Weeks |
| Exposure time | $:$ | Liver, Testis |
| Target Organs | $:$ | $30 \mathrm{mg} / \mathrm{kg}$ |
|  | $:$ | 13 Weeks |
| Species | $:$ | Liver, Testis |
| NOAEL | $:$ Dog |  |
| Exposure time | $: 3 \mathrm{mg} / \mathrm{kg}$ |  |
| Target Organs | $:$ | $12 \mathrm{mg} / \mathrm{kg}$ |
|  | $:$ | 52 Weeks |
| Species | $:$ Liver, gallbladder |  |
| NOAEL | $:$ | Rat |
| LOAEL | $:$ | $1 \mathrm{mg} / \mathrm{kg}$ |
| Exposure time | $:$ | $3 \mathrm{mg} / \mathrm{kg}$ |
| Target Organs | $:$ | 52 Weeks |
| Species | Testis |  |
| NOAEL |  |  |

## N-Methyl-2-pyrrolidone:

| Species | $:$ | Rat, male |
| :--- | :--- | :--- |
| NOAEL | $: 169 \mathrm{mg} / \mathrm{kg}$ |  |
| LOAEL | $: 433 \mathrm{mg} / \mathrm{kg}$ |  |
| Application Route | $:$ | Ingestion |
| Exposure time | $:$ | 90 Days |
| Method | $:$ | OECD Test Guideline 408 |

Species : Rat

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| :---: | :---: | :---: |
| NOAEL | $0,5 \mathrm{mg} / \mathrm{l}$ |  |
| LOAEL | : $1 \mathrm{mg} / \mathrm{l}$ |  |
| Application Route | : inhalation (du | ist/fume) |
| Exposure time | : 96 Days |  |
| Method | : OECD Test G | line 413 |
| Species | : Rabbit |  |
| NOAEL | : $826 \mathrm{mg} / \mathrm{kg}$ |  |
| LOAEL | : $1.653 \mathrm{mg} / \mathrm{kg}$ |  |
| Application Route | : Skin contact |  |
| Exposure time | : 20 Days |  |

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

Species : Rat

NOAEL
LOAEL
$2 \mathrm{mg} / \mathrm{kg}$
$<4 \mathrm{mg} / \mathrm{kg}$
Application Route
Oral
Exposure time
6 w
Target Organs
Gastrointestinal tract
Species : Rat
NOAEL : $1 \mathrm{mg} / \mathrm{kg}$
Application Route
Exposure time
Oral
Target Organs
1 y
Gastrointestinal tract, Kidney
Species : Monkey
NOAEL : $15 \mathrm{mg} / \mathrm{kg}$
Application Route
Exposure time
Oral

Target Organs
90 d
TargetOrgans
: Gastrointestinal tract, Blood
Species : Rabbit
LOAEL : $80 \mathrm{mg} / \mathrm{kg}$
Application Route : Dermal
Exposure time : 21 d
Symptoms
Severe irritation
Species : Dog
LOAEL : $11 \mathrm{mg} / \mathrm{kg}$
Application Route
Exposure time
Target Organs
Oral

Symptoms
9 d
: Gastrointestinal tract
Vomiting

## Citric acid:

| Species | $:$ | Rat |
| :--- | :--- | :--- |
| NOAEL | $: 4.000 \mathrm{mg} / \mathrm{kg}$ |  |
| LOAEL | $: 8.000 \mathrm{mg} / \mathrm{kg}$ |  |
| Application Route | $:$ Ingestion |  |
| Exposure time | $:$ 10 Days |  |

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## Aspiration toxicity

Not classified based on available information.

## Experience with human exposure

## Components:

N-Methyl-2-pyrrolidone:
Skin contact : Symptoms: Skin irritation
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, hypertension, Kidney disorders

## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

## Components:

Florfenicol:

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

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 2,9 plants
mg/l
Exposure time: 14 d
Method: FDA 4.01
NOEC (Pseudokirchneriella subcapitata (green algae)): 2,9 mg/l
Exposure time: 14 d
Method: FDA 4.01
IC50 (Skeletonema costatum (marine diatom)): 0,0336 mg/l
Exposure time: 72 h
Method: ISO 10253

NOEC (Skeletonema costatum (marine diatom)): 0,00423 mg/l
Exposure time: 72 h
Method: ISO 10253
EC50 (Lemna gibba (gibbous duckweed)): 0,76 mg/l
Exposure time: 7 d

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|  | Method: OECD Test Guideline 221 |
| :---: | :---: |
|  | NOEC (Lemna gibba (gibbous duckweed)): 0,39 mg/l Exposure time: 7 d Method: OECD Test Guideline 221 |
|  | EC50 (Navicula pelliculosa (Freshwater diatom)): $61 \mathrm{mg} / \mathrm{l}$ Exposure time: 72 h <br> Method: OECD Test Guideline 201 |
|  | NOEC (Navicula pelliculosa (Freshwater diatom)): $19 \mathrm{mg} / \mathrm{l}$ Exposure time: 72 h <br> Method: OECD Test Guideline 201 |
|  | EC50 (Anabaena flos-aquae): $0,066 \mathrm{mg} / \mathrm{l}$ Exposure time: 72 h <br> Method: OECD Test Guideline 201 |
|  | NOEC (Anabaena flos-aquae): 0,051 mg/l Exposure time: 72 h <br> Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity) | $10$ |
| Toxicity to fish (Chronic toxicity) | NOEC (Pimephales promelas (fathead minnow)): $5,5 \mathrm{mg} / \mathrm{l}$ Exposure time: 32 d <br> Method: OECD Test Guideline 210 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | NOEC (Daphnia magna (Water flea)): $1,5 \mathrm{mg} / \mathrm{l}$ Exposure time: 21 d Method: OECD Test Guideline 211 |
| M-Factor (Chronic aquatic toxicity) | 10 |
| N-Methyl-2-pyrrolidone: |  |
| Toxicity to fish | LC50 (Oncorhynchus mykiss (rainbow trout)): > $500 \mathrm{mg} / \mathrm{l}$ Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): > $1.000 \mathrm{mg} / \mathrm{l}$ Exposure time: 24 h Method: DIN 38412 |
| Toxicity to algae/aquatic plants | ErC50 (Desmodesmus subspicatus (green algae)): $600,5 \mathrm{mg} / \mathrm{l}$ Exposure time: 72 h |
|  | EC10 (Desmodesmus subspicatus (green algae)): $92,6 \mathrm{mg} / \mathrm{l}$ Exposure time: 72 h |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | NOEC (Daphnia magna (Water flea)): $12,5 \mathrm{mg} / \mathrm{l}$ Exposure time: 21 d Method: OECD Test Guideline 211 |
| Toxicity to microorganisms | EC50: > $600 \mathrm{mg} / \mathrm{l}$ Exposure time: 30 min |

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Method: ISO 8192

| Toxicity to fish | LC50 (Lepomis macrochirus (Bluegill sunfish)): $28 \mathrm{mg} / \mathrm{l}$ Exposure time: 96 h <br> Method: FDA 4.11 <br> LC50 (Oncorhynchus mykiss (rainbow trout)): 5,5 mg/l Exposure time: 96 h <br> Method: FDA 4.11 |
| :---: | :---: |
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): $15 \mathrm{mg} / \mathrm{l}$ Exposure time: 48 h Method: FDA 4.08 |
| Toxicity to algae/aquatic plants | NOEC (Microcystis aeruginosa (blue-green algae)): $97 \mathrm{mg} / \mathrm{l}$ Exposure time: 13 d <br> Method: FDA 4.01 |
|  | NOEC (Selenastrum capricornutum (green algae)): $96 \mathrm{mg} / \mathrm{l}$ Exposure time: 12 d |

## Citric acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > $100 \mathrm{mg} / \mathrm{l}$ Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): $1.535 \mathrm{mg} / \mathrm{l}$
aquatic invertebrates Exposure time: 24 h

## Persistence and degradability

## Components:

N-Methyl-2-pyrrolidone:

| Biodegradability | Result: Readily biodegradable. <br> Biodegradation: 73 \% <br> Exposure time: 28 d <br> Method: OECD Test Guideline 301C |
| :---: | :---: |

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Stability in water
: Hydrolysis: 0 \%(28 d)

Citric acid:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 97 \%
Exposure time: 28 d
Method: OECD Test Guideline 301B

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## Bioaccumulative potential

## Components:

## Florfenicol:

Partition coefficient: n- : log Pow: 0,373
octanol/water
pH: 7

N-Methyl-2-pyrrolidone:

| Partition coefficient: $\mathrm{n}-$ | $: \quad$ log Pow: $-0,46$ |
| :--- | :--- |
| octanol/water | Method: OECD Test Guideline 107 |

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Partition coefficient: n- : log Pow: 1,34
octanol/water
Citric acid:
Partition coefficient: n- : log Pow: -1,72 octanol/water

Mobility in soil
Components:
Florfenicol:
Distribution among environ- : Koc: 52 mental compartments

Method: FDA 3.08

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Distribution among environ- : log Koc: 1,92
mental compartments
Other adverse effects
No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

## Disposal methods

Waste from residues : Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging
: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

## International Regulations

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

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| Class | $:$ | 9 |
| :--- | :--- | :--- |
| Packing group | $:$ | III |
| Labels | $:$ | 9 |
| Environmentally hazardous | $:$ | no |
| IATA-DGR |  |  |
| UN/ID No. | $:$ | UN 3082 |
| Proper shipping name | $:$ | Environmentally hazardous substance, liquid, n.o.s. |
|  |  | (Florfenicol) |
| Class | $:$ | 9 |
| Packing group | $:$ | Miscellaneous |
| Labels | $:$ | 964 |
| Packing instruction (cargo |  |  |
| aircraft) |  |  |
| Packing instruction (passen- | $:$ | 964 |
| ger aircraft) |  |  |
| IMDG-Code | $:$ | UN 3082 |
| UN number | $:$ | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Proper shipping name |  | N.O.S. |
|  |  | (Florfenicol) |
| Class | $:$ | 9 |
| Packing group | $:$ | 9 |
| Labels | $:$ | F-A, S-F |
| EmS Code | $:$ | yes |
| Marine pollutant |  |  |

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 : Not applicable Registry.
Control of precursors and essential chemicals for the : Not applicable preparation of drugs.
```

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

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

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## SECTION 16. OTHER INFORMATION

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## Further 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 Agency, http://echa.europa.eu/

## Full text of other abbreviations

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

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; NZloC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific

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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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