



| Version 4.0 | Revision Date: 06.07.2024 | | S Number: 3105-00009 | Date of last issue: 06.04.2024 Date of first issue: 13.10.2021 | | | | | |
|----------------|---|---------|--|---|--|--|--|--|--|
| SECTION | SECTION 1. PRODUCT AND COMPANY IDENTIFICATION | | | | | | | | |
| Produ | Product name | | Enrofloxacin Liq | uid (20%) Formulation | | | | | |
| Manu | facturer or supplier | s detai | ls | | | | | | |
| Comp | bany | : | MSD | | | | | | |
| Address | | : | Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340 | | | | | | |
| Telep | hone | : | 908-740-4000 | | | | | | |
| Emer | gency telephone | : | 1-908-423-6000 | | | | | | |
| E-ma | E-mail address | | EHSDATASTEWARD@msd.com | | | | | | |
| Reco | Recommended use of the chemical and restrictions on use | | | | | | | | |
| | mmended use ictions on use | : | Veterinary produ Not applicable | ict | | | | | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification in acco | rdance with ABNT NBR 14725 Standard |
|----------------------------|-------------------------------------|
| Acute toxicity (Oral) | : Category 4 |

| Acute toxicity (Oral) | · | Calegory 4 |
|--|---|--------------------------------|
| Skin corrosion | : | Category 1A |
| Serious eye damage | : | Category 1 |
| Reproductive toxicity | : | Category 2 |
| Specific target organ toxicity - repeated exposure | : | Category 1 (cartilage, Testis) |
| Short-term (acute) aquatic hazard | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 1 |
| | | |

GHS label elements in accordance with ABNT NBR 14725 Standard

| Hazard pictograms | | | | × |
|-------------------|--------|-----|--|---|
| Signal Word | : Dang | ger | | |



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| Hazard Statements | | H314 Causes s H361f Suspect H372 Causes o prolonged or re | H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H361f Suspected of damaging fertility. H372 Causes damage to organs (cartilage, Testis) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. | | | |
| Precautionary Statements | | P273 Avoid rel P280 Wear pro | Prevention: P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. | | | |
| | | immediately all shower. Immed P305 + P351 + water for sever | | | | |

Other hazards which do not result in classification

Corrosive to the respiratory tract.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | : | Mixture |
|---------------------|---|---------|
|---------------------|---|---------|

| Components | | | | | | | |
|---------------------|------------|--|-----------------------|--|--|--|--|
| Chemical name | CAS-No. | Classification | Concentration (% w/w) | | | | |
| Enrofloxacin | 93106-60-6 | Acute toxicity (Oral), Category 4 Acute toxicity (Der- mal), Category 5 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure (cartilage, Testis), Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 | >= 20 -< 25 | | | | |
| Potassium hydroxide | 1310-58-3 | Corrosive to Metals, Category 1 Acute toxicity (Oral), Category 4 | >= 5 -< 10 | | | | |



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| | | | Skin corrosion, Category 1A Serious eye damage, Category 1 | | |
| Disoc | lium EDTA, dihydrate | 6381-92-6 | Acute toxicity (Oral), Category 5 Acute toxicity (Inhala- tion), Category 4 Specific target organ toxicity - repeated exposure (Respiratory Tract), Category 2 | >= 1 -< 5 | |
| Benz | yl alcohol | 100-51-6 | Acute toxicity (Oral), Category 4 Acute toxicity (Inhala- tion), Category 4 Eye irritation, Category 2A | >= 0,1 -< 1 | |

SECTION 4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical advice immediately. |
|-----------------------------|---|--|
| | | When symptoms persist or in all cases of doubt seek medical advice. |
| If inhaled | : | If inhaled, remove to fresh air. |
| | | If not breathing, give artificial respiration. |
| | | If breathing is difficult, give oxygen. |
| In case of skin contact | : | Get medical attention immediately. In case of contact, immediately flush skin with plenty of water |
| | • | for at least 15 minutes while removing contaminated clothing and shoes. |
| | | Get medical attention immediately. |
| | | Wash clothing before reuse. |
| | | Thoroughly clean shoes before reuse. |
| In case of eye contact | : | for at least 15 minutes. |
| | | If easy to do, remove contact lens, if worn. |
| If any all and a | | Get medical attention immediately. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. |
| | | If vomiting occurs have person lean forward. Call a physician or poison control center immediately. |
| | | Rinse mouth thoroughly with water. |
| | | Never give anything by mouth to an unconscious person. |
| Most important symptoms | ÷ | Harmful if swallowed. |
| and effects, both acute and | | Causes serious eye damage. |
| delayed | | Suspected of damaging fertility. |
| | | Causes damage to organs through prolonged or repeated exposure. |
| | | Causes severe burns. |
| | | Causes digestive tract burns. |
| | | 5 |



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| | Protection of first-aiders | | : | Corrosive to respiratory system. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). | | |
| | Notes | to physician | : | | cally and supportively. | |
| SEC | TION 5 | . FIRE-FIGHTING ME | ASL | JRES | | |
| | Suitabl | e extinguishing media | : | Water spray Alcohol-resistant Carbon dioxide (C Dry chemical | | |
| | | able extinguishing | : | None known. | | |
| | media Specifi fighting | c hazards during fire | : | Exposure to comb | oustion products may be a hazard to health. | |
| | | lous combustion prod- | : | Carbon oxides Metal oxides Nitrogen oxides (I | NOx) | |
| | Specifi ods | c extinguishing meth- | : | cumstances and t Use water spray t | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do | |
| | | l protective equipment fighters | : | Evacuate area. In the event of fire | e, wear self-contained breathing apparatus. rective equipment. | |
| SEC | TION 6 | . ACCIDENTAL RELE | AS | E MEASURES | | |
| | tive eq | al precautions, protec- uipment and emer- procedures | : | | ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8). | |
| | Enviroi | nmental precautions | : | Prevent spreading oil barriers). Retain and dispos | akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages | |
| | | ds and materials for Iment and cleaning up | : | Avoid dispersal of with compressed Dust deposits sho | t absorbent material. ⁱ dust in the air (i.e., clearing dust surfaces air). puld not be allowed to accumulate on a may form an explosive mixture if they are | |

surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable



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| | | disposal of this employed in th determine whic Sections 13 an | al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. d 15 of this SDS provide information regarding national requirements. |
| ECTION | 7. HANDLING AND S | TORAGE | |
| Techr | nical measures | causing an exp Provide adequ | y may accumulate and ignite suspended dust blosion. ate precautions, such as electrical grounding or inert atmospheres. |
| Local | /Total ventilation | | tilation is unavailable, use with local exhaust |
| | e on safe handling | : Do not get on s Do not breathe Do not swallow Do not swallow Do not get in e Wash skin thor Handle in acco practice, based assessment Keep contained Keep contained Keep away from Take precautio Do not eat, drin Take care to pre environment. | mist or vapors. verse mist or vapors. verse mist or vapors. roughly after handling. roughly after handling. roughly after handling. roughly closed industrial hygiene and safety d on the results of the workplace exposure r tightly closed. generation and accumulation. r closed when not in use. m heat and sources of ignition. m heat and sources of igni |
| Hygie | ne measures | flushing systen place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie | chemical is likely during typical use, provide ey ns and safety showers close to the working o not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls. |
| Cond | itions for safe storage | : Keep in proper Store locked u Keep tightly clo | ly labeled containers. p. |
| Mater | rials to avoid | : Do not store w Strong oxidizin | ith the following product types: g agents ubstances and mixtures |



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis | | | |
|---|---|---|--|----------|--|--|--|
| Enrofloxacin | 93106-60-6 | TWA | 0.2 mg/m3 (OEB 2) | Internal | | | |
| Potassium hydroxide | 1310-58-3 | С | 2 mg/m³ | ACGIH | | | |
| Engineering measures : | technologies t less quick con All engineerin design and op protect produc | ppropriate engineering controls and manufacturing ologies to control airborne concentrations (e.g., drip- uick connections). gineering controls should be implemented by facility n and operated in accordance with GMP principles to ct products, workers, and the environment. atory operations do not require special containment. | | | | | |
| Personal protective equipmen | t | | | | | | |
| Respiratory protection : Filter type : | exposure asserved recommended | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type | | | | | |
| Hand protection Material : | Chemical-resistant gloves | | | | | | |
| Eye protection : | Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. | | | | | | |
| Skin and body protection : | Work uniform | or laboratory co | at. | | | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | Aqueous solution |
|---|---|-------------------|
| Color | : | light yellow |
| Odor | : | No data available |
| Odor Threshold | : | No data available |
| рН | : | 10,5 - 12,5 |
| 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 |

SAFETY DATA SHEET



Enrofloxacin Liquid (20%) Formulation

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| | Flamm | ability (solid, gas) | : | May form explos handling or othe | ive dust-air mixture during processing, means. |
| | Flamm | ability (liquids) | : | Not applicable | |
| | | explosion limit / Upper ability limit | : | No data available | 9 |
| | | explosion limit / Lower ability limit | : | No data available | 9 |
| | Vapor | pressure | : | No data available | 9 |
| | Relativ | e vapor density | : | No data available | 9 |
| | Relativ | e density | : | No data available | 9 |
| | Density | / | : | 0,950 - 1,150 g/c | m³ |
| | Solubil Wat | ity(ies) ter solubility | : | No data available | 9 |
| | Partitio octano | n coefficient: n- | : | Not applicable | |
| | | nition temperature | : | No data available | 9 |
| | Decom | position temperature | : | No data available | 9 |
| | Viscosi Visc | ty cosity, kinematic | : | No data available | 9 |
| | Explos | ive properties | : | Not explosive | |
| | Oxidizi | ng properties | : | | r mixture is not classified as oxidizing. |
| | Molecu | ılar weight | : | No data available | 9 |
| | Particle Particle | e characteristics e size | : | Not applicable | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents. | |
|---|---|--|
| Conditions to avoid | : Heat, flames and sparks. Avoid dust formation. | |
| Incompatible materials | : Oxidizing agents | |



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| Haza produ | rdous decomposition | : | Acids No hazardous d | ecomposition products are known. |
| ECTION | 11. TOXICOLOGICAL | INFC | RMATION | |
| Inforr expo | nation on likely routes o sure | f: | Inhalation Skin contact Ingestion Eye contact | |
| | e toxicity hful if swallowed. | | | |
| Prod | | | | |
| | e oral toxicity | : | Acute toxicity est Method: Calculat | imate: 1.806 mg/kg ion method |
| Acute | e inhalation toxicity | : | Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat | h : dust/mist |
| Acute | e dermal toxicity | : | Acute toxicity est Method: Calculat | imate: > 5.000 mg/kg ion method |
| <u>Com</u> | ponents: | | | |
| Enro | floxacin: | | | |
| Acute | e oral toxicity | : | LD50 (Rabbit): 5 | 00 - 800 mg/kg |
| | | | LD50 (Rat): > 5.0 | 000 mg/kg |
| | | | LD50 (Mouse): > | 5.000 mg/kg |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > | 2.000 mg/kg |
| Pota | ssium hydroxide: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): 333 | mg/kg |
| Acute | e inhalation toxicity | : | Assessment: Co | rosive to the respiratory tract. |
| | dium EDTA, dihydrate: e oral toxicity | : | LD50 (Rat): 2.80 | 0 mg/kg |
| Acute | e inhalation toxicity | : | LC50 (Rat, male) Exposure time: 6 Test atmosphere Method: OECD 1 | h |
| | :yl alcohol: e oral toxicity | : | LD50 (Rat): 1.62 | 0 mg/kg |



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| Acute | inhalation toxicity | : | LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere: Method: OECD T | h | |
| | corrosion/irritation es severe burns. | | | | |
| Com | oonents: | | | | |
| Enro | loxacin: | | | | |
| Resul | t | : | No skin irritation | | |
| Potas | sium hydroxide: | | | | |
| Speci | | : | Rabbit | | |
| Resul | t | : | Corrosive after 3 | minutes or less of exposure | |
| Benz | yl alcohol: | | | | |
| Speci | | : | Rabbit | | |
| Metho Resul | | ÷ | OECD Test Guide No skin irritation | eline 404 | |
| <u>Com</u> Enrot | es serious eye damage. ponents: floxacin: | | | | |
| Resul | t | : | Mild eye irritation | | |
| | sium hydroxide: | | | | |
| Speci Resul | | : | Rabbit Irreversible effect | s on the eve | |
| Resul | | • | | | |
| Disod | lium EDTA, dihydrate: | | | | |
| Speci | | : | | | |
| Resul | t | : | No eye irritation | | |
| Benz | yl alcohol: | | | | |
| Speci | | : | Rabbit | | |
| Resul Metho | | : | Irritation to eyes, OECD Test Guide | reversing within 21 days eline 405 | |
| | | | | | |
| - | iratory or skin sensitiz | atic | on | | |
| | sensitization | ble | information | | |
| | assified based on availa | adie | iniormation. | | |
| Resp | Respiratory sensitization | | | | |

Not classified based on available information.



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| <u>Comp</u> | onents: | |
| Enrofl | oxacin: | |
| Test T | vpe | : Maximization Test |
| | s of exposure | : Dermal |
| Specie | | : Guinea pig |
| Result | | : Not a skin sensitizer. |
| Potas | sium hydroxide: | |
| Test T | vpe | : Intracutaneous test |
| | s of exposure | : Skin contact |
| Specie | | : Guinea pig |
| Result | | : negative |
| Disod | ium EDTA, dihydra | ite: |
| Test T | - | : Maximization Test |
| | s of exposure | : Skin contact |
| Specie | | : Guinea pig |
| Metho | | : OECD Test Guideline 406 |
| Result | | : negative |
| Remai | ks | : Based on data from similar materials |
| Benzy | l alcohol: | |
| Test T | vpe | : Maximization Test |
| | s of exposure | : Skin contact |
| Specie | | : Guinea pig |
| Metho | | : OECD Test Guideline 406 |
| Result | | : negative |
| Germ | cell mutagenicity | |
| | assified based on av | ailable information. |
| <u>Comp</u> | onents: | |
| - | oxacin: | |
| Genote | oxicity in vitro | : Test Type: Chromosomal aberration Result: positive |
| Genote | oxicity in vivo | : Test Type: Micronucleus test |
| | | Species: Mouse Result: negative |
| | | Test Type: Mammalian bone marrow sister chromatid ex |
| | | change |
| | | Species: Hamster |
| | | Result: negative |
| | | |
| | | Test Type: Chromosomal aberration |
| | | Test Type: Chromosomal aberration Species: Rat Result: negative |

Potassium hydroxide:



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| Genot | oxicity in vitro | : Test Type: E Result: nega | acterial reverse mutation assay (AMES) tive |
| Disod | ium EDTA, dihydra | te: | |
| Genot | oxicity in vitro | Result: nega | acterial reverse mutation assay (AMES) tive ased on data from similar materials |
| | | Test Type: Ir Result: nega | n vitro mammalian cell gene mutation test tive |
| | | Result: nega | Chromosome aberration test in vitro tive ased on data from similar materials |
| Genotoxicity in vivo | | cytogenetic a Species: Mo Application F | use Route: Ingestion CD Test Guideline 474 |
| Benzy | l alcohol: | | |
| Genot | oxicity in vitro | : Test Type: E Result: nega | acterial reverse mutation assay (AMES) tive |
| Genot | oxicity in vivo | cytogenetic a Species: Mo | use Route: Intraperitoneal injection |

Carcinogenicity

Not classified based on available information.

Components:

| Enrofloxacin: Species Application Route Exposure time Result | : | Rat Oral 2 Years negative |
|--|---|--------------------------------------|
| Species Application Route Exposure time Result | : | Mouse Oral 2 Years negative |

Disodium EDTA, dihydrate:

| Species | : | Rat |
|-------------------|---|-----------|
| Application Route | : | Ingestion |
| Exposure time | : | 103 weeks |



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| | Result Remark | ۲S | : | negative Based on data fro | m similar materials |
| S A E N | Species Applica | tion Route ire time | | Mouse Ingestion 103 weeks OECD Test Guide negative | eline 451 |
| | - | luctive toxicity ted of damaging fertilit | у. | | |
| <u>(</u> | Compo | onents: | | | |
| | | oxacin: on fertility | : | | - |
| E | Effects | on fetal development | : | Result: Reduced f Remarks: Materna Test Type: Develo Species: Rabbit Application Route | : Oral oxicity: LOAEL: 210 mg/kg body weight etal weight., No teratogenic effects. al toxicity observed. opment : Oral |
| | Reprod | luctive toxicity - As- ent | : | Result: No fetotox Some evidence of | oxicity: NOAEL: 25 mg/kg body weight icity., No teratogenic effects. f adverse effects on sexual function and animal experiments. |
| | Disodi | um EDTA, dihydrate: | | | |
| | | on fertility | : | Species: Rat Application Route Result: negative | eneration reproduction toxicity study : Ingestion on data from similar materials |
| E | Effects | on fetal development | : | Test Type: Embry Species: Rat Application Route Result: negative | o-fetal development : Ingestion |
| | - | alcohol: on fertility | : | Test Type: Fertilit | y/early embryonic development |



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| | | | Species: Rat Application Route Result: negative Remarks: Based | e: Ingestion on data from similar materials |
| Effect | s on fetal development | : | Test Type: Embr Species: Mouse Application Route Result: negative | yo-fetal development e: Ingestion |
| | -single exposure lassified based on availa | able | information. | |
| STOT | -repeated exposure | | | |
| | • • | artila | age, Testis) throug | h prolonged or repeated exposure. |
| Com | oonents: | | | |
| Enrof | floxacin: | | | |
| - | et Organs ssment | : | cartilage, Testis Causes damage exposure. | to organs through prolonged or repeated |
| Disod | dium EDTA, dihydrate: | | | |
| Targe | es of exposure et Organs ssment | : | inhalation (dust/n Respiratory Trac May cause dama exposure. | |
| Repe | ated dose toxicity | | | |
| Com | oonents: | | | |
| Enro | floxacin: | | | |
| Expos | EL | | Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis | |
| Expos | EL | | Dog 3 mg/kg 9,6 mg/kg Oral 13 Weeks cartilage | |
| | EL cation Route sure time | : | Cat 25 mg/kg Oral 30 Days No significant ad | verse effects were reported |



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| Diso | dium EDTA, dihydrate: | | | |
| Spec NOA Appli | cies | : | Rat 500 mg/kg Ingestion 13 Weeks | |
| LOAI Appli Expo | Species LOAEL Application Route Exposure time Method | | Rat 0,03 mg/l inhalation (dust/r 4 Weeks OECD Test Guid | |
| Benz | zyl alcohol: | | | |
| NOA Appli Expo | Species NOAEL Application Route Exposure time Method | | Rat 1,072 mg/l inhalation (dust/r 28 Days OECD Test Guid | |
| Aspi | ration toxicity | | | |
| Not o | classified based on availa | ble | information. | |
| Expe | erience with human exp | οςι | ire | |
| Com | ponents: | | | |
| Enro Inges | f loxacin: stion | : | Symptoms: Gast tem effects, Sen | rointestinal disturbance, central nervous sys- sitivity to light |
| SECTION | 12. ECOLOGICAL INFO | ORN | ATION | |
| Ecot | oxicity | | | |
| | ponents: | | | |
| Enro | floxacin: | | | |
| Toxic | city to fish | : | LC50 (Lepomis r Exposure time: 9 | nacrochirus (Bluegill sunfish)): 79,5 mg/l 6 h |
| | | | LC50 (Oncorhyn Exposure time: 9 | chus mykiss (rainbow trout)): > 196 mg/l 6 h |
| | | | LC50 (Oryzias la Exposure time: 9 | tipes (Japanese medaka)): > 100 mg/l 6 h |
| | city to daphnia and other tic invertebrates | : | EC50 (Hyalella a Exposure time: 9 | zteca (Amphipod)): > 206 mg/l 6 h |
| | | | EC50 (Daphnia r Exposure time: 4 | nagna (Water flea)): 79,9 mg/l 8 h |
| Toxic plant | city to algae/aquatic s | : | EC50 (Pseudoki mg/l | chneriella subcapitata (green algae)): 3,1 |
| | | | 14 / 19 | |



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| | | | | Exposure time: 72 | h. |
| | | | | EC50 (Microcystis Exposure time: 5 | s aeruginosa (blue-green algae)): 0,049 mg/l d |
| | | or (Acute aquatic tox- | : | 10 | |
| To ao | icity) Toxicity to daphnia and other aquatic invertebrates (Chron- | | : | NOEC (Daphnia n Exposure time: 21 | nagna (Water flea)): 9,8 mg/l d |
| | toxicit | y) | | NOEC (Daphnia n Exposure time: 21 | nagna (Water flea)): 5 mg/l d |
| | | | | LOEC (Daphnia m Exposure time: 21 | nagna (Water flea)): 15 mg/l d |
| | I-Facto xicity) | or (Chronic aquatic | : | 10 | |
| D | isodiu | Im EDTA, dihydrate: | | | |
| Τ | oxicity | to fish | : | Exposure time: 96 | acrochirus (Bluegill sunfish)): > 100 mg/l 5 h on data from similar materials |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: DIN 3841 | |
| | Toxicity to algae/aquatic plants | | : | mg/l Exposure time: 72 Method: OECD Te | |
| | | | | mg/l Exposure time: 72 Method: OECD Te | |
| a | quatic | to daphnia and other invertebrates (Chron- | : | NOEC (Daphnia n Exposure time: 21 | nagna (Water flea)): 25 mg/l d |
| | toxicit oxicity | y) to microorganisms | : | EC10 (activated s Exposure time: 30 Method: OECD Te | |
| В | enzyl | alcohol: | | | |
| Т | oxicity | to fish | : | LC50 (Pimephales Exposure time: 96 | s promelas (fathead minnow)): 460 mg/l s h |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |



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|-------------|----------------------------------|---|-----|--|---|
| | Toxicity to algae/aquatic plants | | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te | |
| | | | | NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |
| | | v to daphnia and other invertebrates (Chron- ity) | : | NOEC (Daphnia r Exposure time: 21 Method: OECD Te | |
| | Persist | ence and degradabili | ity | | |
| | Compo | onents: | | | |
| | | um EDTA, dihydrate: radability | : | Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD Te | 2 % |
| | - | alcohol: radability | : | Result: Readily bio Biodegradation: S Exposure time: 14 | 92 - 96 % |
| | Bioacc | umulative potential | | | |
| | Compo | onents: | | | |
| | Enrofic Partition octanol | n coefficient: n- | : | log Pow: 0,5 | |
| | | um EDTA, dihydrate: | | | |
| | Bioaccu | umulation | : | Bioconcentration | macrochirus (Bluegill sunfish) factor (BCF): < 500 on data from similar materials |
| | Partitio octanol | n coefficient: n- /water | : | log Pow: -4,3 | |
| | - | alcohol: n coefficient: n- /water | : | log Pow: 1,05 | |
| | Mobilit | y in soil | | | |
| | Compo | onents: | | | |
| | Enrofic Distribu | oxacin: Ition among environ- | : | Koc: 5,55 | |

SAFETY DATA SHEET



Enrofloxacin Liquid (20%) Formulation

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|----------------|--|------------------------------|---|
| menta | al compartments | | |
| • | adverse effects ta available | | |
| | | | |
| ECTION | 13. DISPOSAL CONS | SIDERATIONS | |
| | 13. DISPOSAL CONS | SIDERATIONS | |
| Dispo | | : Do not dispose | of waste into sewer. ccordance with local regulations. |

International Regulations

| UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous | : | UN 1814 POTASSIUM HYDROXIDE SOLUTION 8 II 8 no |
|---|---|--|
| IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) | | UN 1814 Potassium hydroxide solution 8 II Corrosive 855 851 |
| IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant | : | UN 1814 POTASSIUM HYDROXIDE SOLUTION (Enrofloxacin) 8 II 8 F-A, S-B yes |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

| ANTT | | |
|----------------------|---|------------------------------|
| UN number | : | UN 1814 |
| Proper shipping name | : | POTASSIUM HYDROXIDE SOLUTION |
| Class | : | 8 |
| | | |



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|-----------------|--|--|---|
| Labe | ing group ls rd Identification Numbe | : II : 8 r : 80 | |
| Spec | ial precautions for us | er | |
| based Shee | d upon the properties of | f the unpackaged mate fications may vary by r | for informational purposes only, and solely erial as it is described within this Safety Data node of transportation, package sizes, and |
| SECTION | 15. REGULATORY IN | FORMATION | |
| mixtu | ure | - | gislation specific for the substance or |
| Natio (LINA | nal List of Carcinogenic ACH) | c Agents for Humans - | : Not applicable |
| Brazi Police | I. List of chemicals cont e | rolled by the Federal | : Potassium hydroxide |
| The i | ngredients of this pro | duct are reported in | the following inventories: |
| AICS | | : not determined | |
| DSL | | : not determined | |
| IECS | С | : not determined | |

SECTION 16. OTHER INFORMATION

| Revision Date | : 06.07.202 | 4 |
|---------------|-------------|----|
| Date format | : dd.mm.yyy | /у |

Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
|-----------|---|---|
| ACGIH / C | : | Ceiling limit |

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 Sys-



| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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