

Flunixin Injection Formulation

| Version 6.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 | | | |
|----------------|-------------------------------|----------------------------------|--|--|--|--|
| SECTION | 1. IDENTIFICATION | | | | | |
| Produ | uct identifier | : Flunixin Inje | ction Formulation | | | |
| Manu | afacturer or supplier | s details | | | | |
| Com | bany | : MSD | | | | |
| Addre | ess | | Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340 | | | |
| Telep | bhone | : 908-740-400 | 908-740-4000 | | | |
| Emer | gency telephone | : 1-908-423-6 | 1-908-423-6000 | | | |
| E-ma | il address | : EHSDATAS | TEWARD@msd.com | | | |
| Reco | ommended use of the | chemical and rest | rictions on use | | | |
| | mmended use ictions on use | : Veterinary p : Not applicat | | | | |
| SECTION | 2. HAZARDS IDENT | FICATION | | | | |
| GHS | Classification in acc | ordance with ABN ⁻ | NBR 14725 Standard | | | |

| Acute toxicity (Oral) | : | Category 4 |
|--|---|--|
| Acute toxicity (Inhalation) | : | Category 3 |
| Serious eye damage | : | Category 1 |
| Specific target organ toxicity - repeated exposure | • | Category 2 (Gastrointestinal tract, Kidney, Blood) |

GHS label elements in accordance with ABNT NBR 14725 Standard

| Hazard pictograms | : | |
|--------------------------|---|---|
| Signal Word | : | Danger |
| Hazard Statements | : | H302 Harmful if swallowed. H318 Causes serious eye damage. H331 Toxic if inhaled. H373 May cause damage to organs (Gastrointestinal tract, Kidney, Blood) through prolonged or repeated exposure. |
| Precautionary Statements | : | Prevention: P264 Wash skin thoroughly after handling. |



| Version 6.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|----------------|---------------------------|--|--|
| | | P271 Use only | at, drink or smoke when using this product. outdoors or in a well-ventilated area. e protection/ face protection. |
| | | Response: | |
| | | CENTER/ doct P304 + P340 - and keep com doctor. P305 + P351 - water for sever and easy to do CENTER/ doct | P330 IF SWALLOWED: Call a POISON tor if you feel unwell. Rinse mouth. P311 IF INHALED: Remove person to fresh air fortable for breathing. Call a POISON CENTER/ P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON tor. ical advice/ attention if you feel unwell. |
| | | Storage: | |
| | | P405 Store loc | ked up. |
| Othe | r hazards which do r | not result in classifica | tion |

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Classification | Concentration (% w/w) | |
|---|------------|---|-----------------------|--|
| 1-deoxy-1-(methylamino)-D- glucitol 2-[2-methyl-3- (perfluorome- thyl)anilino]nicotinate | 42461-84-7 | Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 2 Eye Dam., 1 STOT SE, 3 STOT RE, (Gastroin- testinal tract, Kidney, Blood), 1 Aquatic Acute, 2 Aquatic Chronic, 2 | >= 5 -< 10 | |
| Phenol | 108-95-2 | Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 3 Acute Tox. (Dermal), 3 Skin Corr., 1B Eye Dam., 1 Muta., 2 STOT RE, (Central nervous system, Kid- ney, Liver, Skin), 2 Aquatic Acute, 2 Aquatic Chronic, 2 | >= 0,25 -< 1 | |
| 2,2'-Iminodiethanol | 111-42-2 | Acute Tox. (Oral), 4 Skin Irrit., 2 Eye Dam., 1 | >= 0,25 -< 1 | |



| rsion | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: Date of first issue: | |
|----------------|----------------------------|------------------------------|--|-------------|
| | | | Repr., 2 STOT RE, (Kidney, Blood, Liver, Nervous system), 2 Aquatic Acute, 2 | |
| Sodiu phina | m hydroxymethanesul- te | 6035-47-8 | Muta., 2 Repr., 2 | >= 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 |
|---|---|
| If inhaled | advice. 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. In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | 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 immediately. |
| 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 and effects, both acute and delayed | Harmful if swallowed. Causes serious eye damage. Toxic if inhaled. May cause damage to organs through prolonged or repeated |
| Protection of first-aiders | exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| Notes to physician | : Treat symptomatically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|--------------------------------|---|---|
| Unsuitable extinguishing media | : | None known. |



| Ver 6.0 | sion | Revision Date: 28.09.2024 | | 0S Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 | | |
|------------|---|------------------------------|-----|--|---|--|--|
| | Specific fighting | c hazards during fire | : | Exposure to comb | pustion products may be a hazard to health. | | |
| | Hazardous combustion prod- ucts | | : | Carbon oxides Fluorine compoun Nitrogen oxides (N | | | |
| | Specific extinguishing meth- ods | | : | Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area. | | | |
| | Special protective equipment for fire-fighters | | : | In the event of fire, wear self-contained breathing apparatus Use personal protective equipment. | | | |
| SEC | CTION 6 | ACCIDENTAL RELE | ASI | EMEASURES | | | |
| | Personal precautions, protec- tive equipment and emer- gency procedures | | : | Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). | | | |
| | Environmental precautions | | : | 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 | | |
| | Methods and materials for containment and cleaning up | | : | For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1 | absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements. | | |

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 breathe mist or vapors. |



| Version 6.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|----------------|---------------------------|--|--|
| Hyg | ene measures | Wash skin tho Handle in accorpractice, base assessment Keep containe Do not eat, dri Take care to p environment. If exposure to flushing system place. When using do Wash contami The effective of engineering co appropriate de industrial hygic | |
| Con | ditions for safe storage | : Keep in prope Store locked u Keep tightly clo Keep in a cool | rly labeled containers. p. |
| Mate | erials to avoid | : Do not store w Strong oxidizir | vith the following product types: ng agents ubstances and mixtures |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|---|---------------------|-------------------------------------|--|---------------|
| 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 | ation: Skin | | |
| | | Wipe limit | 400 µg/100 cm² | Internal |
| Phenol | 108-95-2 | LT | 4 ppm 15 mg/m³ | BR OEL |
| | Further informa | ation: Absorptior | through the skin, De | gree of harm- |
| | fulness: maxim | num | | |
| | | TWA | 5 ppm | ACGIH |
| 2,2'-Iminodiethanol | 111-42-2 | TWA (Inhalable fraction and | 1 mg/m ³ | ACGIH |

Ingredients with workplace control parameters



| Version 6.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.202 Date of first issue: 21.02.201 | - |
|----------------|---------------------------|------------------------------|---|---|
| U | | | vapor) | |

Biological occupational exposure limits

| Biological occupational | - | | | | - · ··· | |
|--|---|---|--|---|--|--------------------------------|
| Components | CAS-No. | Control parameters | Biological specimen | Sam- pling time | Permissible concentra- tion | Basis |
| Phenol | 108-95-2 | phenol | Urine | End of workday | 250 mg/g creatinine | BR BEI |
| | | Phenol | Urine | End of shift (As soon as possible after exposure ceases) | 250 mg/g creatinine | ACGIH BEI |
| Engineering measures | tec less All des pro Col are the cor Mir | e appropriate of hnologies to c s quick connect engineering co sign and opera- tect products, ntainment tech required to co compound to ntainment devi imize open ha | ontrol airborn ctions). ontrols shoul ited in accord workers, and nologies sui ontrol at sour uncontrolled ces). | he concentr d be impler dance with d the enviro table for co ce and to p | ations (e.g., d nented by faci GMP principle nment. ntrolling comp revent migrati | rip- lity s to pounds |
| Personal protective equ | • | | | | | |
| Respiratory protection Filter type Hand protection | exp rec | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type | | | | e the |
| Material | : Ch | emical-resista | nt gloves | | | |
| Remarks Eye protection Skin and body protection | : We If th We pot aer | nsider double ar safety glass ne work enviro its or aerosols ar a faceshiel ential for direc osols. rk uniform or l | ses with side nment or act , wear the ap d or other ful t contact to t | tivity involve propriate g l face prote he face with | es dusty condi oggles. ction if there is | sa |
| Skin and body protection | Ade tas dis Use | ditional body g k being perform posable suits) e appropriate o ntaminated clo | arments sho med (e.g., sl to avoid exp degowning te | ould be used eevelets, ap osed skin s | oron, gauntlets surfaces. | З, |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid



| Vers 6.0 | sion | Revision Date: 28.09.2024 | | S Number: 98641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|-------------|--------------------|---|---|--------------------------|---|
| | Color | | : | clear | |
| | Odor | | : | No data available | 9 |
| | Odor T | hreshold | : | No data available |) |
| | рН | | : | 7,8 - 9,0 | |
| | Melting | point/freezing point | : | No data available |) |
| | Initial b range | oiling point and boiling | : | No data available | |
| | Flash p | oint | : | No data available |) |
| | Evapor | ation rate | : | No data available | |
| | Flamma | ability (solid, gas) | : | Not applicable | |
| | Flamma | ability (liquids) | : | No data available | 9 |
| | | explosion limit / Upper bility limit | : | No data available | 3 |
| | | explosion limit / Lower bility limit | : | No data available | |
| | Vapor p | pressure | : | No data available |) |
| | Relative | e vapor density | : | No data available | |
| | Relative | e density | : | No data available | 9 |
| | Density | , | : | No data available | |
| | Solubili Wat | ty(ies) er solubility | : | No data available |) |
| | Partition octanol | n coefficient: n- | : | Not applicable | |
| | | lition temperature | : | No data available | 9 |
| | Decom | position temperature | : | No data available | 9 |
| | Viscosi Visc | ty osity, kinematic | : | No data available | |
| | Explosi | ve properties | : | Not explosive | |
| | Oxidizir | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| | Molecu | lar weight | : | No data available |) |
| | Particle | characteristics | | | |



| Version 6.0 | Revision Date: 28.09.2024 | | S Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 | | |
|--------------------------------------|---|-----|---|--|--|--|
| Particle | e size | : | Not applicable | | | |
| SECTION 1 | 0. STABILITY AND RE | EAC | ΤΙVITY | | | |
| Possib tions Conditi Incomp | cal stability ility of hazardous reac- ions to avoid patible materials dous decomposition | : | Stable under norn Can react with st None known. Oxidizing agents | a reactivity hazard. mal conditions. rong oxidizing agents. composition products are known. | | |
| SECTION 1 | 1. TOXICOLOGICAL I | NFC | ORMATION | | | |
| Informa exposu | ation on likely routes of Ire | : | Inhalation Skin contact Ingestion Eye contact | | | |
| Harmfu | toxicity ul if swallowed. f inhaled. | | | | | |
| Produce Acute of | <u>ct:</u> oral toxicity | : | Acute toxicity estin Method: Calculation | mate: 604,68 mg/kg on method | | |
| Acute i | inhalation toxicity | : | Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculate | h dust/mist | | |
| Acute | dermal toxicity | : | Acute toxicity estin Method: Calculation | mate: > 5.000 mg/kg on method | | |
| Comp | onents: | | | | | |
| | (y-1-(methylamino)-D- oral toxicity | glu | citol 2-[2-methyl-3 LD50 (Rat): 53 - 1 | B-(perfluoromethyl)anilino]nicotinate: | | |
| Acute | | • | LD50 (Mouse): 17 | | | |
| | | | LD50 (Guinea pig | | | |
| | | | LD50 (Monkey): 3 | | | |
| Acute i | inhalation toxicity | : | LC50 (Rat): < 0,52 mg/l Exposure time: 4 h Test atmosphere: dust/mist | | | |
| | toxicity (other routes of stration) | : | LD50 (Rat): 59,4 - Application Route | | | |



| ersion .0 | Revision Date: 28.09.2024 | | OS Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|---------------|------------------------------|---------|---|--|
| | | | · · / | 164 - 363 mg/kg ite: Intraperitoneal |
| Phen | ol: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): 650 Method: OECD |) mg/kg Test Guideline 401 |
| | | | Acute toxicity es Method: Expert | stimate (Humans): 140 - 290 mg/kg judgment |
| Acute | inhalation toxicity | : | LC0 (Rat): 0,9 r Exposure time: Test atmospher Assessment: Co | 8 h |
| | | | Acute toxicity es Exposure time: Test atmospher Method: Expert | e: dust/mist |
| Acute | e dermal toxicity | : | LD50 (Rabbit): Method: OECD | 660 mg/kg Test Guideline 402 |
| | | | Acute toxicity es Method: Expert | stimate (Humans): 300 mg/kg judgment |
| 11 2,2'-li | minodiethanol: | | | |
| | e oral toxicity | : | LD50 (Rat): 1.6 | 00 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat, male Exposure time: Test atmospher | 4 h |
| II Sodiı | um hydroxymethane | sulph | inate: | |
| | e oral toxicity | : | LD50 (Rat): > 5 Method: OECD | .000 mg/kg Test Guideline 423 d on data from similar materials |
| Acute | e dermal toxicity | : | | .000 mg/kg Test Guideline 402 d on data from similar materials |
| - | corrosion/irritation | ., | | |
| | lassified based on ava | ailable | information. | |
| Com | ponents: | | | |

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

| | • | • | - | | |
|-------------------|---|---|---|----------------------|--|
| Species Result | | | : | Rabbit | |
| Result | | | : | Mild skin irritation | |

Phenol:



| /ersion 5.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|-------------------|---|---------------------------------------|---|
| Species Result | | : Rabbit : Corrosive afte | er 3 minutes to 1 hour of exposure |
| 2,2'-l | minodiethanol: | | |
| Spec Resu | ies | : Rabbit : Skin irritation | |
| Sodi | um hydroxymethane | sulphinate: | |
| Spec | | : Rat | |
| Resu Rema | | : No skin irritati : Based on data | on a from similar materials |
| Serio | ous eye damage/eye | irritation | |
| Caus | es serious eye damag | je. | |
| Com | ponents: | | |
| 1-dec | oxy-1-(methylamino) | -D-glucitol 2-[2-meth | yl-3-(perfluoromethyl)anilino]nicotinate: |
| Spec | | : Rabbit | |
| Resu | ilt | : Irreversible ef | fects on the eye |
| Phen | nol: | | |
| Spec | ies | : Rabbit | |
| Resu | | | fects on the eye |
| Meth | od | : OECD Test G | uideline 405 |
| 2,2'-l | minodiethanol: | | |
| Spec | | : Rabbit | |
| Resu | llt | : Irreversible ef | fects on the eye |
| Sodi | um hydroxymethane | sulphinate: | |
| Spec | ies | : Rabbit | |
| Resu | | : No eye irritatio | |
| Meth Rema | | : OECD Test G | uideline 405 a from similar materials |
| Rema | arks | . Daseu on data | |
| Resp | piratory or skin sensi | tization | |
| - | sensitization | ailable information. | |
| - | biratory sensitization classified based on avai | | |
| Com | ponents: | | |
| 1-dec | oxy-1-(methylamino) | -D-glucitol 2-[2-meth | yl-3-(perfluoromethyl)anilino]nicotinate: |
| Test | Туре | : Maximization | |
| Route | es of exposure | : Dermal | |



| rsion | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 | | | |
|--|--|--|---|--|--|--|
| Result | t | : negative | | | | |
| Pheno | ol: | | | | | |
| Test T | vpe | : Buehler Test | | | | |
| | s of exposure | : Skin contact | | | | |
| Specie | | : Guinea pig | | | | |
| Metho | d | | Guideline 406 | | | |
| Result | t | : negative | | | | |
| 2,2'-In | ninodiethanol: | | | | | |
| Test T | ype | : Maximizatior | Test | | | |
| | s of exposure | : Skin contact | | | | |
| Specie | es | : Guinea pig | | | | |
| Metho | d | : OECD Test (| Guideline 406 | | | |
| Result | t | : negative | | | | |
| Sodiu | m hydroxymethane | esulphinate: | | | | |
| Test T | уре | : Maximizatior | Test | | | |
| Route | s of exposure | : Skin contact | | | | |
| Specie | es | : Guinea pig | | | | |
| Metho | d | : OECD Test (| Guideline 406 | | | |
| | | | | | | |
| Result | t | : negative | | | | |
| Rema Germ | rks cell mutagenicity | : Based on da | ta from similar materials | | | |
| Rema Germ Not cla | rks | : Based on da | ta from similar materials | | | |
| Rema Germ Not cla <u>Comp</u> | rks cell mutagenicity assified based on ava conents: | : Based on da aailable information. | ta from similar materials hyl-3-(perfluoromethyl)anilino]nicotinate: | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava conents: | : Based on da ailable information. | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. -D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: ir | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. -D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: ir | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: ir Test system: Result: positi Test Type: C | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: ir Test system: Result: positi Test Type: C | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: ir Test system: Result: positi Test Type: C | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: ir Test system: Result: positi Test Type: C Test system: | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: in Test system: Result: positi Test system: Result: positi Test system: Result: positi | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | : Based on da ailable information. - D-glucitol 2-[2-met : Test Type: B Result: nega Test Type: in Test system: Result: positi Test system: Result: positi Test system: Result: positi | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo Genot | rks cell mutagenicity assified based on ava <u>ponents:</u> xy-1-(methylamino) oxicity in vitro | Based on data ailable information. -D-glucitol 2-[2-met Test Type: B Result: nega Test Type: in Test system: Result: positi Test Type: C Test system: Result: positi Test Type: in Test system: Result: positi | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo Genot | rks cell mutagenicity assified based on ava ponents: xy-1-(methylamino) | Based on da ailable information. -D-glucitol 2-[2-met Test Type: B Result: nega Test Type: in Test system: Result: positi Test Type: C Test system: Result: positi Test Type: in Test system: Result: positi Test Type: in Test system: Result: positi | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve vitro test Escherichia coli ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo Genot | rks cell mutagenicity assified based on ava <u>ponents:</u> xy-1-(methylamino) oxicity in vitro | Based on da ailable information. -D-glucitol 2-[2-met Test Type: B Result: nega Test Type: in Test system: Result: positi Test Type: C Test system: Result: positi Test Type: in Test system: Result: positi Test Type: in Test system: Result: positi | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve vitro test Escherichia coli ve | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo Genot | rks cell mutagenicity assified based on ava <u>ponents:</u> xy-1-(methylamino) oxicity in vitro | Based on data ailable information. -D-glucitol 2-[2-met Test Type: B Result: nega Test Type: in Test system: Result: positi Test Type: C Test system: Result: positi Test Type: I Test system: Result: positi Test Type: in Test system: Result: positi Test Type: M Species: Mo Application F | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve vitro test Escherichia coli ve licronucleus test use coute: Oral | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo Genot | rks cell mutagenicity assified based on ava <u>ponents:</u> xy-1-(methylamino) oxicity in vitro | Based on da ailable information. -D-glucitol 2-[2-met Test Type: B Result: nega Test Type: in Test system: Result: positi Test Type: C Test system: Result: positi Test Type: in Test system: Result: positi Test Type: in Test system: Result: positi | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve vitro test Escherichia coli ve licronucleus test use coute: Oral | | | |
| Rema Germ Not cla <u>Comp</u> 1-deo Genot | rks cell mutagenicity assified based on ava <u>ponents:</u> xy-1-(methylamino) oxicity in vitro | Based on data ailable information. -D-glucitol 2-[2-met Test Type: B Result: nega Test Type: in Test system: Result: positi Test Type: C Test system: Result: positi Test Type: in Test system: Result: positi Test Type: in Test system: Result: positi Test Type: M Species: Mod Application F Result: nega | hyl-3-(perfluoromethyl)anilino]nicotinate: acterial reverse mutation assay (AMES) tive vitro test mouse lymphoma cells ve hromosomal aberration Chinese hamster ovary cells ve vitro test Escherichia coli ve licronucleus test use coute: Oral | | | |

Version



Date of last issue: 30.09.2023

Flunixin Injection Formulation

Revision Date:

| 6.0 | 28.09.2024 | 13 | 08641-00018 | Date of first issue: 21.02.2017 |
|---------|--------------------------------------|------|--|--|
| II | | | | |
| | henol: | | | |
| | enotoxicity in vitro | : | | omosome aberration test in vitro Test Guideline 473 |
| G | enotoxicity in vivo | : | cytogenetic ass Species: Mouse Application Rou Method: OECD Result: positive | |
| | erm cell mutagenicity - ssessment | : | Positive result(s mutagenicity tes |) from in vivo mammalian somatic cell sts. |
| 2. | ,2'-Iminodiethanol: | | | |
| ' | enotoxicity in vitro | : | Test Type: Bact Result: negative | erial reverse mutation assay (AMES) |
| | | | Test Type: In vi Result: negative | tro mammalian cell gene mutation test |
| | | | Test Type: Chro Result: negative | omosome aberration test in vitro |
| | | | Test Type: In vi malian cells Result: negative | tro sister chromatid exchange assay in mam- |
| G | enotoxicity in vivo | : | Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative | te: Skin contact |
| II S | odium hydroxymethanes | ulph | inate [.] | |
| | enotoxicity in vitro | : | Test Type: Bact Method: OECD Result: negative | erial reverse mutation assay (AMES) Test Guideline 471 e d on data from similar materials |
| G | enotoxicity in vivo | : | cytogenetic ass Species: Mouse Application Rou Method: OECD Result: positive | |
| | erm cell mutagenicity - ssessment | : | Positive result(s mutagenicity tes |) from in vivo mammalian somatic cell sts. |

SDS Number:



| ersion D | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|-------------|---------------------------|------------------------------|---|
| 11 | | | |
| | nogenicity | | |
| | assified based on avai | lable information | |
| | | | |
| Comp | oonents: | | |
| 1-dec | oxy-1-(methylamino)-l | D-glucitol 2-[2-methy | I-3-(perfluoromethyl)anilino]nicotinate: |
| Speci | | : Rat | |
| | cation Route | : oral (feed) | |
| | sure time | : 104 w | |
| LOAE | EL | : 2 mg/kg body w | veight |
| Resu | | : negative | |
| | et Organs | : Gastrointestina | |
| Rema | arks | : Significant toxic | tity observed in testing |
| Speci | es | : Mouse | |
| | cation Route | : oral (feed) | |
| | sure time | : 97 w | |
| NOAE | | : 0,6 mg/kg body | weight |
| Resu | | : negative | |
| | et Organs | : Gastrointestina | |
| Rema | arks | : Significant toxic | city observed in testing |
| Phen | ol: | | |
| Speci | es | : Mouse | |
| Applic | cation Route | : Ingestion | |
| Expos | sure time | : 103 weeks | |
| Metho | | : OECD Test Gu | ideline 451 |
| Resu | lt | : negative | |
| 2,2'-lr | minodiethanol: | | |
| Speci | | : Mouse | |
| | cation Route | : Skin contact | |
| Expos | sure time | : 103 weeks | |
| Resu | | : positive | |
| Rema | arks | : The mechanisn mans. | n or mode of action may not be relevant in l |
| | | | |
| Speci | | : Rat | |
| Applic | cation Route sure time | : Skin contact | |
| | | : 103 weeks | |
| Resu | IL | : negative | |
| | nogenicity - Assess- | - | nce does not support classification as a ca |
| ment | | cinogen | |
| | | | |

Not classified based on available information.

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:Effects on fertility: Test Type: Two-generation reproduction toxicity study



| Vers 6.0 | ion Revision Date: 28.09.2024 | | 9S Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|-------------|---|---|---|--|
| | | | Symptoms: No fet | Parent: LOAEL: 1 - 1,5 mg/kg body weight al abnormalities. on fertility and early embryonic develop- |
| | Effects on fetal development | : | Embryo-fetal toxic Result: Embryotox | |
| | | | Species: Rabbit Application Route General Toxicity M Embryo-fetal toxic Result: Embryotox | o-fetal development : Oral Maternal: LOAEL: 3 mg/kg body weight sity.: NOAEL: 3 mg/kg body weight kic effects and adverse effects on the off- ted only at high maternally toxic doses |
| - | Phenol: | | | |
| | Effects on fertility | : | Test Type: Two-g Species: Rat Application Route Method: OECD To Result: negative | |
| | Effects on fetal development | : | Test Type: Embry Species: Mouse Application Route Method: OECD To Result: negative | |
| | 2,2'-Iminodiethanol: | | | |
| | Effects on fertility | : | Test Type: One-g Species: Rat Application Route Method: OECD Te Result: positive | |
| | Effects on fetal development | : | Test Type: One-g Species: Rat Application Route Method: OECD To Result: positive | |
| | Reproductive toxicity - As- sessment | : | | f adverse effects on sexual function and development, based on animal experiments. |

Sodium hydroxymethanesulphinate:



| ersion 0 | Revision Date: 28.09.2024 | | 0S Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 | | | |
|------------------------------|--|-------------|---|---|--|--|--|
| Effects on fertility | | : | reproduction/de Species: Rat Application Rou Method: OECD Result: negative | Test Guideline 422 | | | |
| Effects on fetal development | | | Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive Remarks: Based on data from similar materials | | | | |
| Repro sessn | oductive toxicity - As- nent | : | Some evidence animal experime | of adverse effects on development, based o ents. | | | |
| May o | F-repeated exposure cause damage to organs ated exposure. | : (G: | astrointestinal tra | ct, Kidney, Blood) through prolonged or | | | |
| <u>Com</u> | ponents: | | | | | | |
| | | - | | I-3-(perfluoromethyl)anilino]nicotinate: | | | |
| l arge Asses | et Organs ssment | : | | tract, Kidney, Blood e to organs through prolonged or repeated | | | |
| Phen | ol: | | | | | | |
| | et Organs ssment | : | | s system, Kidney, Liver, Skin hage to organs through prolonged or repeated | | | |
| 2,2'-lı | minodiethanol: | | | | | | |
| Targe | es of exposure et Organs ssment | : : : | Ingestion Kidney, Blood, Liver, Nervous system Shown to produce significant health effects in animals at c centrations of >10 to 100 mg/kg bw. | | | | |
| | a of overoure | | | (mint/fume) | | | |



| Version 6.0 | Revision Date: 28.09.2024 | SDS Number:Date of last issue: 30.09.20231308641-00018Date of first issue: 21.02.2017 |
|---|--|---|
| Targe | es of exposure et Organs ssment | Skin contact Blood, Liver, Kidney Shown to produce significant health effects in animals at concentrations of >20 to 200 mg/kg bw. |
| Repe | ated dose toxicity | |
| <u>Comp</u> | ponents: | |
| | | D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: |
| Expos | ΞL | Rat 2 mg/kg < 4 mg/kg Oral 6 w Gastrointestinal tract |
| Speci NOAE Applic Expos Targe | | : Rat : 1 mg/kg : Oral : 1 y : Gastrointestinal tract, Kidney |
| Expos | | Monkey 15 mg/kg Oral 90 d Gastrointestinal tract, Blood |
| Speci LOAE Applio Expos Symp | EL cation Route sure time | Rabbit 80 mg/kg Dermal 21 d Severe irritation |
| Expos | EL cation Route sure time et Organs | Dog 11 mg/kg Oral 9 d Gastrointestinal tract Vomiting |
| Phen | ol: | |
| | EL cation Route sure time | : Rat : 300 mg/kg : Ingestion : 90 Days : OECD Test Guideline 408 |
| | | : Rat : >= 0,1 mg/l : inhalation (vapor) : 74 Days |



| Version 6.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|----------------|---|---|---|
| | | : Rabbit : 260 mg/kg : Skin contact : 18 Days | |
| 2,2'-l | minodiethanol: | | |
| | | : Rat, female : 14 mg/kg : Ingestion : 13 Weeks | |
| | EL cation Route sure time | : Rat : 0,015 mg/l : inhalation (dust : 90 Days : OECD Test Gu | |
| | | : Rat : 32 mg/kg : Skin contact : 13 Weeks | |
| Sodi | um hydroxymethanes | ulphinate: | |
| | EL cation Route sure time od | : Rat : 600 mg/kg : Ingestion : 90 Days : OECD Test Gu : Based on data | ideline 408 from similar materials |
| - | ration toxicity lassified based on ava | lable information. | |
| Expe | rience with human ex | posure | |
| Com | ponents: | | |
| 1-dec | oxy-1-(methylamino)- | D-glucitol 2-[2-methy | I-3-(perfluoromethyl)anilino]nicotinate: |
| | contact contact | : Symptoms: Ski : Symptoms: Sev | vere irritation strointestinal disturbance, bleeding, hyperten- |
| SECTION | 12. ECOLOGICAL IN | FORMATION | |
| Fcot | oxicity | | |
| Prod | - | | |
| | ity to fish | Exposure time: | lles promelas (fathead minnow)): > 100 mg/l 96 h Teat Quideling 202 |

Method: OECD Test Guideline 203



| Version 6.0 | Revision Date: 28.09.2024 | | 0S Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|-----------------|--|----------|---|---|
| | city to daphnia and other tic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | agna (Water flea)): > 100 mg/l 3 h est Guideline 202 |
| Toxic plant | city to algae/aquatic s | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To | |
| | | | NOEC (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 | |
| <u>Com</u> | ponents: | | | |
| | oxy-1-(methylamino)-D- city to fish | glu : | | |
| | | | LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11 | |
| | city to daphnia and other tic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08 | |
| Toxic plant | city to algae/aquatic s | : | NOEC (Microcyst Exposure time: 13 Method: FDA 4.07 | |
| | | | NOEC (Selenastr Exposure time: 12 | um capricornutum (green algae)): 96 mg/l 2 d |
| Pher | nol: | | | |
| Toxic | sity to fish | : | LC50 (Pimephale Exposure time: 96 | s promelas (fathead minnow)): 24,9 mg/l S h |
| | city to daphnia and other tic invertebrates | : | EC50 (Ceriodaph Exposure time: 48 | nia dubia (water flea)): 3,1 mg/l 3 h |
| Toxic plant | city to algae/aquatic s | : | EC50 (Selenastru Exposure time: 96 | m capricornutum (green algae)): 61,1 mg/l Sh |
| Toxic icity) | city to fish (Chronic tox- | : | NOEC: 0,077 mg/ Exposure time: 60 | |
| aqua | city to daphnia and other tic invertebrates (Chron- | : | NOEC (Daphnia r Exposure time: 16 | nagna (Water flea)): 10 mg/l 5 d |
| ic tox Toxic | cicity) city to microorganisms | : | IC50 (Nitrosomon Exposure time: 24 | |



| Version 6.0 | Revision Date: 28.09.2024 | | 9S Number: 08641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|------------------|---|------|---|---|
| П | | | | |
| | ninodiethanol: | | | |
| Toxici | ty to fish | : | LC50 (Oncorhyno Exposure time: 9 | chus mykiss (rainbow trout)): 460 mg/l 6 h |
| | ty to daphnia and other c invertebrates | : | EC50 (Ceriodaph Exposure time: 4 | nia dubia (water flea)): 30,1 mg/l 8 h |
| Toxici plants | ty to algae/aquatic | : | ErC50 (Pseudoki mg/l Exposure time: 72 | rchneriella subcapitata (green algae)): 9,5 2 h |
| | | | EC10 (Pseudokir mg/l Exposure time: 72 | chneriella subcapitata (green algae)): 1,1 2 h |
| | ty to daphnia and other c invertebrates (Chron- city) | : | EC10 (Daphnia n Exposure time: 2 | nagna (Water flea)): 1,05 mg/l 1 d |
| | ty to microorganisms | : | Exposure time: 3 | sludge): > 1.000 mg/l 0 min rest Guideline 209 |
| II Sodiu | m hydroxymethanesu | lphi | nate: | |
| | ty to fish | : | LC50 (Leuciscus Exposure time: 9 | idus (Golden orfe)): > 10.000 mg/l 6 h on data from similar materials |
| | ty to daphnia and other c invertebrates | : | Exposure time: 4 Method: OECD T | nagna (Water flea)): > 100 mg/l 8 h est Guideline 202 on data from similar materials |
| Toxici plants | ty to algae/aquatic | : | Exposure time: 72 Method: OECD T | esmus subspicatus (green algae)): 370 mg/l 2 h Test Guideline 201 on data from similar materials |
| Toxici icity) | ty to fish (Chronic tox- | : | Exposure time: 3 Method: OECD T | io (zebra fish)): 13,5 mg/l 5 d est Guideline 210 on data from similar materials |
| | ty to daphnia and other c invertebrates (Chron- city) | : | Exposure time: 2 Method: OECD T | magna (Water flea)): 5,6 mg/l 1 d est Guideline 211 on data from similar materials |
| Toxici | ty to microorganisms | : | EC50: > 1.000 m Exposure time: 4 Remarks: Based | |



| ersion 0 | Revision Date: 28.09.2024 | SDS Nu 130864 | umber: 1-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 |
|-------------|---|--------------------|---|---|
| Persi | stence and degrada | oility | | |
| <u>Com</u> | oonents: | | | |
| 1-dec | oxy-1-(methylamino)∙ | D-glucitol | 2-[2-methy | I-3-(perfluoromethyl)anilino]nicotinate: |
| Stabil | lity in water | : Hyd | Irolysis: 0 % | (28 d) |
| Phen | ol: | | | |
| Biode | gradability | Bioo Exp | degradation | |
| 2,2'-lr | minodiethanol: | | | |
| Biode | gradability | Bioo Exp | degradation | |
| | um hydroxymethane | sulphinate | : | |
| Biode | gradability | Bioo Exp Met | degradation osure time: hod: OECD | |
| Bioad | ccumulative potentia | I | | |
| Com | oonents: | | | |
| 1-dec | oxy-1-(methylamino) | D-alucitol | 2-[2-methy | I-3-(perfluoromethyl)anilino]nicotinate: |
| Partiti | ion coefficient: n- ol/water | - | Pow: 1,34 | (pointer en |
| Phen | ol: | | | |
| Bioac | cumulation | Bio | | n factor (BCF): 17,5 Test Guideline 305 |
| | ion coefficient: n- ol/water | : log | Pow: 1,47 | |
| 2,2'-lr | minodiethanol: | | | |
| | ion coefficient: n- ol/water | | Pow: -2,46 hod: OECD | Test Guideline 107 |
| Mobil | lity in soil | | | |
| <u>Com</u> | oonents: | | | |
| | | - | | I-3-(perfluoromethyl)anilino]nicotinate: |
| | bution among environ al compartments | · : log | Koc: 1,92 | |



Flunixin Injection Formulation

| 6.0 | Revision Date: 28.09.2024 | SDS Number: 1308641-00018 | Date of last issue: 30.09.2023 Date of first issue: 21.02.2017 | | |
|---|---|---|---|--|--|
| | r adverse effects ata available | | | | |
| SECTION | 13. DISPOSAL CON | SIDERATIONS | | | |
| Disp | osal methods | | | | |
| Wast | e from residues | | of waste into sewer. | | |
| Conta | aminated packaging | : Empty containe handling site fo | Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. | | |
| UNR | - | | | | |
| Not r | TDG egulated as a dangerc | ous good | | | |
| ΙΑΤΑ | -DGR | | | | |
| | -DGR egulated as a dangero | us good | | | |
| Not ro | | - | | | |
| Not re IMDC Not re Trans | egulated as a dangero 5-Code egulated as a dangero | us good ng to Annex II of MAF | RPOL 73/78 and the IBC Code | | |
| Not re IMDC Not re Trans Not a | egulated as a dangero G-Code egulated as a dangero sport in bulk accordi | us good ng to Annex II of MAF | RPOL 73/78 and the IBC Code | | |
| Not re IMDO Not re Trans Not a Dom | egulated as a dangero G-Code egulated as a dangero sport in bulk accordi applicable for product a estic regulation | us good ng to Annex II of MAF as supplied. | RPOL 73/78 and the IBC Code | | |

SECTION 15. REGULATORY INFORMATION

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

National List of Carcinogenic Agents for Humans - (LINACH)

| Group 2B: Possibly carcinogenic to humans 2,2'-Iminodiethanol | 111-42-2 |
|---|------------------|
| Brazil. List of chemicals controlled by the Federal Police | : Not applicable |

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

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



| Version | Revision Date: | SDS Number: | Date of last issue: 30.09.2023 |
|---------|----------------|---------------|---------------------------------|
| 6.0 | 28.09.2024 | 1308641-00018 | Date of first issue: 21.02.2017 |

SECTION 16. OTHER INFORMATION

| Revision Date | : | 28.09.2024 |
|---------------|---|------------|
| Date format | : | dd.mm.yyyy |

Further information

| Sources of key data used to : | I | Internal technical data, data from raw material SDSs, OECD |
|-------------------------------|---|--|
| compile the Material Safety | e | eChem Portal search results and European Chemicals Agen- |
| Data Sheet | C | 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 ACGIH BEI BR BEI | : | USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents |
|--------------------------------------|---|--|
| BR OEL ACGIH / TWA BR OEL / LT | : | Brazil. NR 15 - Unhealthy activities and operations 8-hour, time-weighted average Up to 48 hours /week |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System



| Version | Revision Date: | SDS Number: | Date of last issue: 30.09.2023 |
|---------|----------------|---------------|---------------------------------|
| 6.0 | 28.09.2024 | 1308641-00018 | Date of first issue: 21.02.2017 |

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.

BR / Z8