



| 10.0         2023/09/30         633947-00021         Date of first issue: 2016/04/27 | Version Revision Date: | SDS Number:  | Date of last issue: 2023/04/04  |
|--|------------------------|--------------|---------------------------------|
|  | 10.0 2023/09/30        | 633947-00021 | Date of first issue: 2016/04/27 |

### **1. PRODUCT AND COMPANY IDENTIFICATION**

| Chemical product name                                   | : | Enrofloxacin (10%) Formulation   |
|---|---|--|
| Supplier's company name, ad<br>Company name of supplier |   |  |
| Address   | : | Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd.<br>Menuma factory |
| Telephone   | : | 048-588-8411   |
| E-mail address  | : | EHSDATASTEWARD@msd.com   |
| Emergency telephone number                              | : | +1-908-423-6000  |

### Recommended use of the chemical and restrictions on use

| Recommended use     | : | Veterinary product |
|---------------------|---|--------------------|
| Restrictions on use | : | Not applicable     |

# 2. HAZARDS IDENTIFICATION

| GHS classification of chemic<br>Reproductive toxicity | cal<br>: | product<br>Category 2   |
|---|----------|---|
| Specific target organ toxicity -<br>repeated exposure | :        | Category 1 (cartilage, Testis)  |
| Short-term (acute) aquatic hazard                     | :        | Category 1  |
| Long-term (chronic) aquatic<br>hazard                 | :        | Category 1  |
| GHS label elements                                    |          |   |
| Hazard pictograms                                     | :        |   |
| Signal word   | :        | Danger  |
| Hazard statements                                     | :        | H361f Suspected of damaging fertility.<br>H372 Causes damage to organs (cartilage, Testis) through<br>prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects. |





| Vision       Tension Parts.       Obs of values in task issue: 2016/04/27         10.0       2023/09/30       633947-00021       Date of first issue: 2016/04/27         Precautionary statements       :       Prevention:         P201       Ob not handle until all safety precautions have been read and understood.       P202 Do not breathe mist or vapours.         P260       Do not breathe mist or vapours.       P260 Do not breather handling.         P270       Do not eat, drink or smoke when using this product.         P273       Avoid release to the environment.         P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.       Response:         P308 + P313       Fexposed or concerned: Get medical advice/ attention.         P391       Collect spillage.         Storage:       P405         P405       Store locked up.         Disposal:       P501         P501       Dispose of contents/ container to an approved waste disposal plant.         Other hazards which do not result in classification None known.       None known.         3. COMPOSITION/INFORMATION ON INGREDIENTS       Substance / Mixture         Substance / Mixture       Mixture         Chemical name       CAS-No.       Concentration (% w/w)         Enrofloxacin       93106-60-6       >= 10 - < 20 <th>Version</th> <th>Revision Date:</th> <th>SDS Number:</th> <th>Date of last issue: 2023/04/</th> <th>04</th> | Version  | Revision Date:       | SDS Number:   | Date of last issue: 2023/04/   | 04                                 |
|--|----------|----------------------|---|--|------------------------------------|
| 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 vapours.         P260 Do not breathe mist or vapours.       P260 Ed Wash skin thoroughly after handling.         P270 Do not eat, drink or smoke when using this product.       P273 Avoid release to the environment.         P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.       Response:         P308 + P313 IF exposed or concerned: Get medical advice/ attention.       P391 Collect spillage.         Storage:       P405 Store locked up.         P501 Disposal:       P501 Dispose of contents/ container to an approved waste disposal plant.         Other hazards which do not result in classification None known.       None known.         3. COMPOSITION/INFORMATION ON INGREDIENTS       Substance / Mixture         Chemical name       CAS-No.       Concentration (% w/w)         Enrofloxacin       93106-60-6       >= 10 - < 20   |          |                      |   |  |                                    |
| Response:         P308 + P313 IF exposed or concerned: Get medical advice/<br>attention.         P391 Collect spillage.         Storage:         P405 Store locked up.         Disposal:         P501 Dispose of contents/ container to an approved waste<br>disposal plant.         Other hazards which do not result in classification<br>None known.         3. COMPOSITION/INFORMATION ON INGREDIENTS         Substance / Mixture       Mixture         Components         Chemical name       CAS-No.         Concentration (% w/w)       ENCS No.         Enrofloxacin       93106-60-6  |          |                      | Frevention:<br>P201 Obtain sp<br>P202 Do not ha<br>and understood<br>P260 Do not bro<br>P264 Wash skin<br>P270 Do not ea<br>P273 Avoid rele<br>P280 Wear prot | ecial instructions before use.<br>ndle until all safety precaution<br>eathe mist or vapours.<br>n thoroughly after handling.<br>t, drink or smoke when using<br>ase to the environment.<br>ective gloves/ protective cloth | is have been read<br>this product. |
| P308 + P313 IF exposed or concerned: Get medical advice/<br>attention.         P391 Collect spillage.         Storage:         P405 Store locked up.         Disposal:         P501 Dispose of contents/ container to an approved waste<br>disposal plant.         Other hazards which do not result in classification<br>None known.         3. COMPOSITION/INFORMATION ON INGREDIENTS         Substance / Mixture       : Mixture         Components         Chemical name       CAS-No.       Concentration (% w/w)         Enrofloxacin       93106-60-6       >= 10 - < 20  |          |                      | •   | tion.  |                                    |
| attention.       P391 Collect spillage.         P391 Collect spillage.       Storage:         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.         3. COMPOSITION/INFORMATION ON INGREDIENTS         Substance / Mixture       : Mixture         Components         Chemical name       CAS-No.         Concentration (% w/w)       ENCS No.         Enrofloxacin       93106-60-6   |          |                      | •   | exposed or concerned. Get n  | nedical advice/                    |
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| disposal plant.         Other hazards which do not result in classification<br>None known.         3. COMPOSITION/INFORMATION ON INGREDIENTS         Substance / Mixture         Substance / Mixture         Components         Chemical name       CAS-No.         Concentration (% w/w)       ENCS No.         Enrofloxacin       93106-60-6   |          |                      | Disposal:   |  |                                    |
| None known.         3. COMPOSITION/INFORMATION ON INGREDIENTS         Substance / Mixture         Components         Chemical name       CAS-No.         Concentration (% w/w)       ENCS No.         Enrofloxacin       93106-60-6       >= 10 - < 20   |          |                      |   | f contents/ container to an ap   | proved waste                       |
| 3. COMPOSITION/INFORMATION ON INGREDIENTS         Substance / Mixture         Components         Chemical name       CAS-No.         Enrofloxacin       93106-60-6   | Othe     | r hazards which do n | ot result in classificat  | ion  |                                    |
| Substance / Mixture       : Mixture         Components       Chemical name       CAS-No.       Concentration (% w/w)       ENCS No.         Enrofloxacin       93106-60-6       >= 10 - < 20   | None     | known.               |   |  |                                    |
| ComponentsChemical nameCAS-No.Concentration (% w/w)ENCS No.Enrofloxacin93106-60-6>= 10 - < 20  | 3. COMPO | DSITION/INFORMATIO   | ON ON INGREDIENTS   |  |                                    |
| Chemical nameCAS-No.Concentration (% w/w)ENCS No.Enrofloxacin93106-60-6>= 10 - < 20  | Subs     | tance / Mixture      | : Mixture   |  |                                    |
| Enrofloxacin 93106-60-6 >= 10 - < 20   | Com      | ponents              |   |  |                                    |
| Enrofloxacin 93106-60-6 >= 10 - < 20   | Chem     | nical name           | CAS-No.   | Concentration (% w/w)  | ENCS No.                           |
| Benzyl alcohol         100-51-6         >= 1 - < 10         3-1011   | Enrof    | loxacin              |   |  |                                    |
|  | Benz     | yl alcohol           | 100-51-6  | >= 1 - < 10  | 3-1011                             |

# 4. FIRST AID MEASURES

| General advice          | <ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>  |
|-------------------------|---|
| If inhaled              | : If inhaled, remove to fresh air.<br>Get medical attention.  |
| In case of skin contact | <ul> <li>In case of contact, immediately flush skin with soap and plenty<br/>of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul> |



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|---------------|---|--|-----|---|---|
|               |   |  |     |   |   |
|               |   | of eye contact   | :   | Get medical atten   | ater as a precaution.<br>tion if irritation develops and persists.  |
|               | If swallowed  |  | :   | Get medical atten   | NOT induce vomiting.<br>tion.<br>oughly with water.   |
|               | Most important symptoms<br>and effects, both acute and<br>delayed |  | :   | Suspected of dam<br>Causes damage t<br>exposure.                      | naging fertility.<br>o organs through prolonged or repeated   |
|               |   | on of first-aiders   | •   | and use the recor<br>when the potentia                                | ers should pay attention to self-protection,<br>nmended personal protective equipment<br>I for exposure exists (see section 8).                                       |
|               |   | o physician  | :   | I reat symptomati   | cally and supportively.   |
|               |   | ITING MEASURES   |     |   |   |
|               | Suitable  | e extinguishing media                                      | •   | Water spray<br>Alcohol-resistant<br>Carbon dioxide (C<br>Dry chemical |   |
|               | Unsuita<br>media  | ble extinguishing  | :   | None known.   |   |
|               |   | hazards during fire-                                       | :   | Exposure to comb  | oustion products may be a hazard to health.   |
|               |   | ous combustion prod-                                       | :   | Carbon oxides   |   |
|               | Specific<br>ods   | extinguishing meth-  | :   | cumstances and t<br>Use water spray t                                 | measures that are appropriate to local cir-<br>he surrounding environment.<br>o cool unopened containers.<br>ged containers from fire area if it is safe to do        |
|               | Special<br>for firefi   | protective equipment ghters                                | :   | In the event of fire  | e, wear self-contained breathing apparatus.<br>rective equipment.   |
| 6. AC         | CCIDEN  | ITAL RELEASE MEAS  | SUF | RES   |   |
|               | tive equ  | al precautions, protec-<br>lipment and emer-<br>procedures | :   | Follow safe handl   | ective equipment.<br>ing advice (see section 7) and personal pro-<br>recommendations (see section 8).   |
|               | Environ   | mental precautions   | :   | Prevent spreading barriers).<br>Retain and dispos                     | akage or spillage if safe to do so.<br>g over a wide area (e.g. by containment or oil<br>se of contaminated wash water.<br>should be advised if significant spillages |
|               |   | s and materials for<br>ment and cleaning up                | :   | For large spills, priment to keep mat                                 | t absorbent material.<br>rovide dyking or other appropriate contain-<br>erial from spreading. If dyked material can<br>recovered material in appropriate container.   |



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|                 |  |   | bent.<br>Local or national<br>posal of this mate<br>employed in the of<br>mine which regul<br>Sections 13 and   | ng materials from spill with suitable absor-<br>regulations may apply to releases and dis-<br>erial, as well as those materials and items<br>cleanup of releases. You will need to deter-<br>ations are applicable.<br>15 of this SDS provide information regarding<br>ational requirements. |
| 7. HANDI        | LING AND STORAGE   |   |   |  |
| Hand            | dling  |   |   |  |
| Loca<br>Advid   | nical measures<br>I/Total ventilation<br>ce on safe handling<br>dance of contact<br>ene measures |   | CONTROLS/PEF<br>Use only with add<br>Do not breathe m<br>Do not swallow.<br>Avoid contact wit<br>Avoid prolonged<br>Wash skin thorou<br>Handle in accord<br>practice, based of<br>sessment<br>Do not eat, drink<br>Take care to prevent<br>environment.<br>Oxidizing agents<br>If exposure to che<br>flushing systems<br>place.<br>When using do n<br>Wash contamina<br>The effective ope<br>engineering contra |  |
|                 | <b>age</b><br>ditions for safe storage<br>erials to avoid  | : | Store locked up.<br>Store in accordar   | labelled containers.<br>nce with the particular national regulations.<br>the following product types:  |
| Pack            | aging material   | : | Unsuitable mater  | ial: None known.   |

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment



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| Components           | CAS-No.                       | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Reference<br>concentration /<br>Permissible con-<br>centration | Basis          |
|----------------------|-------------------------------|-------------------------------------|--|----------------|
| Enrofloxacin         | 93106-60-6                    | TWA                                 | 0.2 mg/m3 (OEB<br>2)   | Internal       |
| Benzyl alcohol       | 100-51-6                      | OEL-C                               | 25 mg/m3   | JP OEL<br>JSOH |
|                      |                               |                                     | sitizing agent; Group 2<br>c reactions in humans   |                |
| Engineering measures | technologies<br>less quick co | to control airbor<br>nnections).    | controls and manufactors (e.   | g., drip-      |

| All engineering controls should be implemented by facility |
|--|
| design and operated in accordance with GMP principles to   |
| protect products, workers, and the environment.            |
| Laboratory operations do not require special containment.  |

| Pers | or | nal | protective equipment |  |
|------|----|-----|----------------------|--|
| -    |    |     |                      |  |

| Respiratory protection   | : | If adequate local exhaust ventilation is not available or expo-<br>sure assessment demonstrates exposures outside the rec-<br>ommended guidelines, use respiratory protection.<br>Combined particulates and organic vapour type   |
|--------------------------|---|---|
| Hand protection          |   |   |
| Material                 | : | Chemical-resistant gloves   |
| Eye protection           | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions,<br>mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a<br>potential for direct contact to the face with dusts, mists, or<br>aerosols. |
| Skin and body protection | : | Work uniform or laboratory coat.  |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state   | : | liquid            |
|--|---|-------------------|
| Colour   | : | No data available |
| Odour  | : | No data available |
| Odour Threshold  | : | No data available |
| Melting point/freezing point                           | : | No data available |
| Boiling point, initial boiling point and boiling range | : | No data available |
| Flammability (solid, gas)                              | : | Not applicable    |



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|                 |  |          |                         |   |
| Flam            | mability (liquids)   | :        | No data available       | 9   |
| Up              | r explosion limit and upp<br>oper explosion limit / Up-<br>er flammability limit |          |                         |   |
|                 | ower explosion limit /<br>ower flammability limit                                | :        | No data available       | )   |
| Flash           | point  | :        | No data available       | 2   |
| Deco            | mposition temperature  | :        | No data available       | 9   |
| рН              |  | :        | No data available       | 9   |
| Evap            | oration rate   | :        | No data available       | 9   |
| Auto-           | ignition temperature   | :        | No data available       | 9   |
| Visco<br>Vi     | sity<br>scosity, kinematic   | :        | No data available       |   |
|                 | ility(ies)<br>ater solubility  | :        | No data available       | 9   |
|                 | ion coefficient: n-<br>ol/water  | :        | Not applicable          |   |
| Vapo            | ur pressure  | :        | No data available       | 9   |
|                 | ity and / or relative densi<br>elative density                                   | ity<br>: | No data available       | 9   |
| De              | ensity   | :        | No data available       | 9   |
| Relat           | ive vapour density   | :        | No data available       | 9   |
| Explo           | sive properties  | :        | Not explosive           |   |
| Oxidi           | zing properties  | :        | The substance o         | r mixture is not classified as oxidizing.                         |
|                 | cle characteristics<br>article size  | :        | Not applicable          |   |

# **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. |



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|-----------------|--|-----|---|---|--|
| Incom           | itions to avoid<br>npatible materials<br>rdous decomposition<br>icts | :   | None known.<br>Oxidizing agents<br>No hazardous de  | ecomposition products are known.                                  |  |
| 1. TOXIC        | OLOGICAL INFORMAT  | 101 | N   |   |  |
| Inforn<br>expos | nation on likely routes of<br>sure                                   | :   | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact  |   |  |
| Acute           | e toxicity   |     |   |   |  |
|                 | lassified based on availa  | ble | information.  |   |  |
| Prod            |  |     |   |   |  |
| Acute           | e oral toxicity  | :   | Acute toxicity esti<br>Method: Calculati  | mate: > 2,000 mg/kg<br>on method                                  |  |
| Acute           | inhalation toxicity  | :   | <ul> <li>Acute toxicity estimate: &gt; 5 mg/l<br/>Exposure time: 4 h<br/>Test atmosphere: dust/mist<br/>Method: Calculation method</li> </ul> |   |  |
| <u>Com</u>      | ponents:   |     |   |   |  |
| Enro            | floxacin:  |     |   |   |  |
| Acute           | e oral toxicity  | :   | LD50 (Rabbit): 50   | 00 - 800 mg/kg  |  |
|                 |  |     | LD50 (Rat): > 5,0   | 00 mg/kg  |  |
|                 |  |     | LD50 (Mouse): >   | 5,000 mg/kg   |  |
| Acute           | e dermal toxicity  | :   | LD50 (Rabbit): > 2  | 2,000 mg/kg   |  |
| Benz            | yl alcohol:  |     |   |   |  |
|                 | e oral toxicity  | :   | LD50 (Rat): 1,620   | ) mg/kg   |  |
| Acute           | inhalation toxicity  | :   | LC50 (Rat): > 4.1<br>Exposure time: 4<br>Test atmosphere:<br>Method: OECD T   | h   |  |
| Skin            | corrosion/irritation   |     |   |   |  |
| Not c           | lassified based on availa  | ble | information.  |   |  |
| <u>Com</u>      | ponents:   |     |   |   |  |

### Enrofloxacin:





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|  |   |   |   |   |
|  |   |   |   |   |
| Result   | t   | :   | No skin irritatio   | n   |
|  | /l alcohol:   |   |   |   |
| Specie   |   | -   | Rabbit  |   |
| Metho<br>Result  | -   |   | OECD Test Gu<br>No skin irritatio   |   |
| Resul  | L   | ·   | INO SKIIT ITTIALIO  | 11  |
|  | us eye damage/eye   |   |   |   |
|  | assified based on ava   | ailable ir                                  | nformation.   |   |
| <u>Comp</u>  | onents:   |   |   |   |
| -  | loxacin:  |   | N 411.1   |   |
| Result   | t   | :   | Mild eye irritati   | n   |
| Benzy  | /l alcohol:   |   |   |   |
| Specie   | es  | :   | Rabbit  |   |
| Resul  | t   | :   | Irritation to eve   | s, reversing within 21 days                                       |
| N 4 - 41   | 1   |   |   |   |
| -  | ratory or skin sensi  | :   | OECD Test Ğu  |   |
| Respi<br>Skin s  | -   | :<br>tisatior                               | OECD Test Ġu  |   |
| Respi<br>Skin s<br>Not cla<br>Respi  | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation  | :<br><b>tisatior</b><br>ailable ir          | OECD Test Ġu<br>n   |   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava   | :<br><b>tisatior</b><br>ailable ir          | OECD Test Ġu<br>n   |   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u>  | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>ponents:   | :<br><b>tisatior</b><br>ailable ir          | OECD Test Ġu<br>n   |   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u><br>Enrof   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>ponents:<br>loxacin:   | :<br>ailable ir<br>ailable ir               | OECD Test Gu<br>nformation.   | ideline 405   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u><br>Enrof   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>ponents:<br>loxacin:   | :<br>ailable ir<br>ailable ir               | OECD Test Ġu<br>n   | ideline 405   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u><br>Enrof   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes  | :<br>ailable ir<br>ailable ir<br>ailable ir | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig  | ideline 405   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u><br>Enrof<br>Test T<br>Expos  | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>onents:<br>loxacin:<br>Type<br>sure routes<br>es   | :<br>ailable ir<br>ailable ir<br>ailable ir | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal  | ideline 405   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u><br>Enrof<br>Test T<br>Expos<br>Specie<br>Result  | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>onents:<br>loxacin:<br>Type<br>sure routes<br>es   | :<br>ailable ir<br>ailable ir<br>ailable ir | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig  | ideline 405   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br><u>Comp</u><br>Enrof<br>Test T<br>Expos<br>Specie<br>Result  | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es  | :<br>ailable in<br>ailable in               | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig  | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t   | :<br>ailable in<br>ailable in               | OECD Test Gu<br>n<br>nformation.<br>nformation.<br>Maximisation T<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact  | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos<br>Specia   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>yl alcohol:<br>Type<br>sure routes<br>es   | :<br>ailable in<br>ailable in               | OECD Test Gu<br>n<br>nformation.<br>nformation.<br>Maximisation T<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig                                  | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos<br>Specia<br>Metho                                      | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>rul alcohol:<br>Type<br>sure routes<br>es  | itisation<br>ailable in<br>ailable in       | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig<br>OECD Test Gu                       | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos<br>Specia   | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>rul alcohol:<br>Type<br>sure routes<br>es  | itisation<br>ailable in<br>ailable in       | OECD Test Gu<br>n<br>nformation.<br>nformation.<br>Maximisation T<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig                                  | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos<br>Specia<br>Metho<br>Result                            | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>v/ alcohol:<br>Type<br>sure routes<br>es<br>t<br>cell mutagenicity                                       | itisation<br>ailable in<br>ailable in       | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig<br>OECD Test Gu<br>negative | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos<br>Specia<br>Result<br>Metho<br>Result                  | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>v/ alcohol:<br>Type<br>sure routes<br>es<br>t<br>cell mutagenicity<br>assified based on ava              | itisation<br>ailable in<br>ailable in       | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig<br>OECD Test Gu<br>negative | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specie<br>Result<br>Benzy<br>Test T<br>Expos<br>Specie<br>Result<br>Germ<br>Not cla<br>Comp          | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>rul alcohol:<br>Type<br>sure routes<br>es<br>t<br>cell mutagenicity<br>assified based on ava<br>conents: | itisation<br>ailable in<br>ailable in       | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig<br>OECD Test Gu<br>negative | est<br>sitizer.   |
| Respi<br>Skin s<br>Not cla<br>Respi<br>Not cla<br>Comp<br>Enrof<br>Test T<br>Expos<br>Specia<br>Result<br>Benzy<br>Test T<br>Expos<br>Specia<br>Result<br>Germ<br>Not cla<br>Comp<br>Enrof | ratory or skin sensi<br>sensitisation<br>assified based on ava<br>ratory sensitisation<br>assified based on ava<br>conents:<br>loxacin:<br>Type<br>sure routes<br>es<br>t<br>v/ alcohol:<br>Type<br>sure routes<br>es<br>t<br>cell mutagenicity<br>assified based on ava              | itisation<br>ailable in<br>ailable in       | OECD Test Gu<br>nformation.<br>nformation.<br>Maximisation T<br>Dermal<br>Guinea pig<br>Not a skin sens<br>Maximisation T<br>Skin contact<br>Guinea pig<br>OECD Test Gu<br>negative | est<br>sitizer.   |



| ersion<br>.0                                  | Revision Date:<br>2023/09/30           | SDS Number:<br>633947-00021 | Date of last issue: 2023/04/04<br>Date of first issue: 2016/04/27 |
|---|--|-----------------------------|---|
|   |  |                             |   |
| II  |  | Result: positiv             | e   |
| Geno  | otoxicity in vivo                      | : Test Type: Mi             | cronucleus test   |
|   |  | Species: Mous               | Se  |
|   |  | Result: negati              | ve  |
|   |  | Test Type: Ma               | mmalian bone marrow sister chromatid ex-                          |
|   |  | change                      |   |
|   |  | Species: Ham                |   |
|   |  | Result: negati              | ve  |
|   |  | Test Type: Ch               | romosomal aberration  |
|   |  | Species: Rat                |   |
|   |  | Result: negati              | ve  |
| II<br>Benz                                    | yl alcohol:                            |                             |   |
|   | otoxicity in vitro                     | : Test Type: Ba             | cterial reverse mutation assay (AMES)                             |
|   |  | Result: negativ             |   |
| Conc  | otoxicity in vivo                      | · Toot Type: Ma             | mmalian anthroasta miaranualaua taat (in siju                     |
| Gend  |  | cytogenetic as              | Immalian erythrocyte micronucleus test (in viv                    |
|   |  | Species: Mous               |   |
|   |  |                             | oute: Intraperitoneal injection                                   |
|   |  | Result: negati              | ve  |
| II  |  |                             |   |
|   | inogenicity                            | -ilable information         |   |
|   | lassified based on av                  | allable information.        |   |
|   | ponents:                               |                             |   |
|   | floxacin:                              |                             |   |
| Spec  |  | : Rat                       |   |
| Appli   | cation Route<br>sure time              | : Oral<br>: 2 Years         |   |
| ⊏xpo<br>Resu                                  |  | : negative                  |   |
|   |  | -                           |   |
| Spec  |  | : Mouse                     |   |
| Appli   | cation Route                           | : Oral                      |   |
|   | sure time                              | : 2 Years                   |   |
| Expo  | IIT                                    | : negative                  |   |
| Expo<br>Resu                                  |  |                             |   |
| Expo<br>Resu                                  | yl alcohol:                            |                             |   |
| Expo<br>Resu                                  |  | : Mouse                     |   |
| Expo<br>Resu<br>Benz<br>Spec<br>Appli         | ies<br>cation Route                    | : Mouse<br>: Ingestion      |   |
| Expo<br>Resu<br>Benz<br>Spec<br>Appli<br>Expo | ies<br>cation Route<br>sure time       | : Ingestion<br>: 103 weeks  |   |
| Expo<br>Resu<br>Benz<br>Spec<br>Appli         | ies<br>cation Route<br>sure time<br>od | : Ingestion                 | uideline 451  |

Suspected of damaging fertility.



| rsion<br>0      | Revision Date: 2023/09/30      | SDS Number:<br>633947-00021                           | Date of last issue: 2023/04/04<br>Date of first issue: 2016/04/27  |
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|                 |                                |   |  |
| <u>Comp</u>     | oonents:                       |   |  |
| Enrof           | loxacin:                       |   |  |
| Effects         | s on fertility                 | Species: Ra<br>Application<br>Fertility: LC           | Two-generation study<br>at<br>Route: Oral<br>DAEL: 15 mg/kg body weight<br>ects on fertility, alteration in sperm morpholo                                   |
| Effects<br>ment | s on foetal develop-           | Species: R<br>Application<br>Developme<br>Result: Rec | Development<br>at<br>Route: Oral<br>ental Toxicity: LOAEL: 210 mg/kg body weig<br>duced foetal weight, No teratogenic effects<br>Maternal toxicity observed. |
|                 |                                | Species: Ra<br>Application<br>Developme               | Development<br>abbit<br>Route: Oral<br>ental Toxicity: NOAEL: 25 mg/kg body weigh<br>fetotoxicity, No teratogenic effects                                    |
| Repro<br>sessm  | ductive toxicity - As-<br>nent |   | ence of adverse effects on sexual function a<br>ed on animal experiments.  |
| Benz            | /l alcohol:                    |   |  |
|                 | s on fertility                 | Species: Ra<br>Application<br>Result: neg             | Route: Ingestion   |
| Effect:<br>ment | s on foetal develop-           | Species: M  | Route: Ingestion   |

# Not classified based on available information.

# STOT - repeated exposure

Causes damage to organs (cartilage, Testis) through prolonged or repeated exposure.

# Components:

# Enrofloxacin:

| Target Organs | : | cartilage, Testis                                     |
|---------------|---|---|
| Assessment    | : | Causes damage to organs through prolonged or repeated |
| 11            |   | exposure.   |





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|                 |                              |                             |   |
| Repe            | ated dose toxicity           |                             |   |
| Com             | ponents:                     |                             |   |
| Enro            | floxacin:                    |                             |   |
| Spec            | ies                          | : Rat                       |   |
| NOA             |                              | : 36 mg/kg                  |   |
| LOAE            |                              | : 150 mg/kg                 |   |
|                 | cation Route<br>sure time    | : Oral<br>: 13 Weeks        |   |
|                 | et Organs                    | : Testis                    |   |
| Spec            |                              | : Dog                       |   |
| NOA<br>LOAE     |                              | : 3 mg/kg<br>: 9.6 mg/kg    |   |
|                 | ∠∟<br>cation Route           | : 9.6 mg/kg<br>: Oral       |   |
|                 | sure time                    | : 13 Weeks                  |   |
| Targe           | et Organs                    | : cartilage                 |   |
| Spec            | ies                          | : Cat                       |   |
| NOA             |                              | : 25 mg/kg                  |   |
|                 | cation Route                 | : Oral                      |   |
| Rema            | sure time<br>arks            | : 30 Days                   | ant adverse effects were reported                                 |
| <b>N</b> CINC   |                              | . No signino                |   |
|                 | yl alcohol:                  | _                           |   |
| Spec            |                              | : Rat                       |   |
| NOA             | ⊏∟<br>cation Route           | : 1.072 mg/l                | (dust/mist/fume)  |
|                 | sure time                    | : 28 Days                   |   |
| Meth            |                              |                             | t Guideline 412   |
| Aspi            | ration toxicity              |                             |   |
| Not c           | lassified based on av        | ailable information.        |   |
| Expe            | rience with human e          | exposure                    |   |
| Com             | ponents:                     |                             |   |
| Enro            | floxacin:                    |                             |   |
| Inges           | stion                        | : Symptoms                  | : Gastrointestinal disturbance, central nervous sys-              |
| Ū               |                              |                             | s, Sensitivity to light   |
| 12. ECOL        | OGICAL INFORMAT              | ION                         |   |
| Ecote           | oxicity                      |                             |   |
|                 | ponents:                     |                             |   |
| Enro            | floxacin:                    |                             |   |
|                 | tity to fish                 |                             | omis macrochirus (Bluegill supfish)): 70.5 mg/l                   |
| TOXIC           | ary 10 11511                 | . соро (сер                 | omis macrochirus (Bluegill sunfish)): 79.5 mg/l                   |





| rsion<br>.0       | Revision Date:<br>2023/09/30                       | - | 98 Number:<br>3947-00021                | Date of last issue: 2023/04/04<br>Date of first issue: 2016/04/27          |
|-------------------|--|---|---|--|
|                   |  |   |   |  |
|                   |  |   | Exposure time:                          | 96 h   |
|                   |  |   | LC50 (Oncorhy<br>Exposure time:         | nchus mykiss (rainbow trout)): > 196 mg/l<br>96 h                          |
|                   |  |   | LC50 (Oryzias I<br>Exposure time:       | atipes (Japanese medaka)): > 100 mg/l<br>96 h                              |
|                   | ty to daphnia and other<br>c invertebrates         | : | EC50 (Hyalella<br>Exposure time:        | azteca (Amphipod)): > 206 mg/l<br>96 h                                     |
|                   |  |   | EC50 (Daphnia<br>Exposure time:         | magna (Water flea)): 79.9 mg/l<br>48 h                                     |
| Toxicit<br>plants | ty to algae/aquatic                                | : | EC50 (Pseudok<br>mg/l<br>Exposure time: | irchneriella subcapitata (green algae)): 3.1<br>72 h                       |
|                   |  |   | EC50 (Microcys<br>Exposure time:        | atis aeruginosa (blue-green algae)): 0.049 n<br>5 d                        |
|                   | tor (Acute aquatic tox-                            | : | 10                                      |  |
|                   | ty to daphnia and other<br>c invertebrates (Chron- | : | NOEC (Daphnia<br>Exposure time:         | a magna (Water flea)): 9.8 mg/l<br>21 d                                    |
|                   | sity)  |   | NOEC (Daphnia<br>Exposure time:         | a magna (Water flea)): 5 mg/l<br>21 d                                      |
|                   |  |   | LOEC (Daphnia<br>Exposure time:         | n magna (Water flea)): 15 mg/l<br>21 d                                     |
| M-Fac<br>toxicity | tor (Chronic aquatic<br>y)                         | : | 10                                      |  |
| Benzy             | /l alcohol:  |   |   |  |
| Toxici            | ty to fish   | : | LC50 (Pimepha<br>Exposure time:         | les promelas (fathead minnow)): 460 mg/l<br>96 h                           |
|                   | ty to daphnia and other<br>c invertebrates         | : | Exposure time:                          | magna (Water flea)): 230 mg/l<br>48 h<br>Test Guideline 202                |
| Toxicit<br>plants | ty to algae/aquatic                                | : | mg/l<br>Exposure time:                  | irchneriella subcapitata (green algae)): 770<br>72 h<br>Test Guideline 201 |
|                   |  |   | mg/l<br>Exposure time:                  | kirchneriella subcapitata (green algae)): 31<br>72 h<br>Test Guideline 201 |





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|-----------------|--|----|--|---|
| aqua<br>ic tox  | city to daphnia and other<br>tic invertebrates (Chron-<br>cicity)<br><b>istence and degradabil</b> |    | Exposure time: 2   | magna (Water flea)): 51 mg/l<br>1 d<br><sup>-</sup> est Guideline 211 |
| <u>Com</u>      | ponents:   |    |  |   |
|                 | <b>ryl alcohol:</b><br>egradability  | :  | Result: Readily b<br>Biodegradation:<br>Exposure time: 1 | 92 - 96 %   |
| Bioa            | ccumulative potential  |    |  |   |
| Com             | ponents:   |    |  |   |
| Partit          | floxacin:<br>tion coefficient: n-<br>nol/water   | :  | log Pow: 0.5   |   |
| Partit          | <b>ryl alcohol:</b><br>tion coefficient: n-<br>nol/water   | :  | log Pow: 1.05  |   |
|                 | ility in soil  |    |  |   |
| <u>Com</u>      | ponents:   |    |  |   |
| Distri          | floxacin:<br>bution among environ-<br>al compartments  | :  | Koc: 5.55  |   |
|                 | rdous to the ozone lay<br>applicable   | er |  |   |
|                 | r adverse effects<br>ata available   |    |  |   |
| 13. DISPO       | DSAL CONSIDERATION   | IS |  |   |
| Dien            | osal methods   |    |  |   |
| -               | e from residues  | :  |  | cordance with local regulations.                                      |

|                        | • | Dispose of in decordance with local regulations.           |
|------------------------|---|--|
|                        |   | Do not dispose of waste into sewer.                        |
| Contaminated packaging | : | Empty containers should be taken to an approved waste han- |
|                        |   | dling site for recycling or disposal.                      |
|                        |   | If not otherwise specified: Dispose of as unused product.  |

# 14. TRANSPORT INFORMATION

### International Regulations





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|-----------------|------------------------------|---|--------------------------|---|
|                 |                              |   |                          |   |
|                 | <b>TDG</b><br>number         |   | UN 3082                  |   |
|                 | er shipping name             | : | ENVIRONMENT/<br>N.O.S.   | ALLY HAZARDOUS SUBSTANCE, LIQUID,                                 |
| Clas            | 8                            |   | ()<br>9                  |   |
|                 | ing group                    | : | Ĩ                        |   |
| Labe            |                              | : | 9                        |   |
| Envi            | ronmentally hazardous        | : | yes                      |   |
|                 | A-DGR                        |   |                          |   |
|                 | D No.                        | ÷ | UN 3082                  | energia a substance liquid a co                                   |
| Рюр             | er shipping name             | • | ()                       | nazardous substance, liquid, n.o.s.                               |
| Clas            | S                            | : | 9                        |   |
|                 | ing group                    | : | III                      |   |
| Labe            |                              | : | Miscellaneous            |   |
| Pack            | ing instruction (cargo       |   | 964                      |   |
| Pack            | ing instruction (passen-     | : | 964                      |   |
|                 | ronmentally hazardous        | : | yes                      |   |
| IMD             | G-Code                       |   | -                        |   |
|                 | number                       | : | UN 3082                  |   |
| Prop            | er shipping name             | : | ENVIRONMENT/<br>N.O.S.   | ALLY HAZARDOUS SUBSTANCE, LIQUID,                                 |
|                 |                              |   | ()                       |   |
| Clas            |                              | : | 9                        |   |
|                 | ing group                    | : |                          |   |
| Labe            | ls<br>Code                   | ÷ | 9                        |   |
|                 | ne pollutant                 | : | F-A, S-F<br>yes          |   |
| man             | Politica in                  | • | ,                        |   |

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

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### 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.

**ERG Code** : 171



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### **15. REGULATORY INFORMATION**

### **Related Regulations**

### **Fire Service Law**

Not applicable to dangerous materials / designated flammables.

### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

### Industrial Safety and Health Law

### Harmful Substances Prohibited from Manufacture

Not applicable

### Harmful Substances Required Permission for Manufacture

Not applicable

### **Substances Prevented From Impairment of Health**

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

| Chemical name  | Concentration (%) | Remarks |
|----------------|-------------------|---------|
| Benzyl alcohol | >=1 - <10         | -       |

#### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

| Chemical name  | Remarks |
|----------------|---------|
| benzyl alcohol | -       |

### Ordinance on Prevention of Hazards Due to Specified Chemical Substances Not applicable

### **Ordinance on Prevention of Lead Poisoning**

Not applicable

# Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable





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Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

### High Pressure Gas Safety Act

Not applicable

**Explosive Control Law** 

Not applicable

#### Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

#### **Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

#### Marine Pollution and Sea Disaster Prevention etc Law

| Bulk transportation : | : | Noxious liquid substance(Category Z) |
|-----------------------|---|--------------------------------------|
|-----------------------|---|--------------------------------------|

Pack transportation : Classified as marine pollutant

#### Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

#### Waste Disposal and Public Cleansing Law

Industrial waste

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

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

#### **16. OTHER INFORMATION**

#### Further information

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD



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|-----------------|---------------------------|-----------------------------|---|
|                 |                           |                             |   |
| com             | oile the Safety Data      | eChem Portal                | search results and European Chemicals Agen-                       |

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

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Date format

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### Full text of other abbreviations

JP OEL JSOH : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits

### JP OEL JSOH / OEL-C : Occupational Exposure Limit-Ceiling

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

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





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