



Cloxacillin / Ampicillin Formulation

| Vers 2.4 | sion | Revision Date: 2024/09/28 | | S Number: 343368-00006 | Date of last issue: 2023/12/05 Date of first issue: 2022/08/30 |
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| 1 D | סטוס | T AND COMPANY IDE | | | |
| 1. Г | | | _1111 | | |
| | Produc | t name | : | Cloxacillin / Amp | icillin Formulation |
| | Other n | neans of identification | : | Bovaclox Dry Co | w (A004495) |
| | Manufa | acturer or supplier's d | letai | ls | |
| | Compa | •• | : | MSD | |
| | Addres | S | : | 126 E. Lincoln A Rahway, New Je | venue ersey U.S.A. 07065 |
| | Telepho | one | : | 908-740-4000 | |
| | Emerge | ency telephone number | : | 1-908-423-6000 | |
| | E-mail | address | : | EHSDATASTEW | /ARD@msd.com |
| | Recom | mended use of the ch | nem | ical and restriction | ons on use |
| | | mended use | : | Veterinary produ | ct |
| | Restric | tions on use | : | Not applicable | |
| | | | | | |
| | | | | | |

2. HAZARDS IDENTIFICATION

| GHS Classification Respiratory sensitisation | : | Category 1 |
|---|---|--|
| Skin sensitisation | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 3 |
| GHS label elements | | |
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | Prevention: |



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| | | P272 Contamir the workplace. P273 Avoid rel P280 Wear pro | eathing vapours. hated work clothing should not be allowed out of ease to the environment. otective gloves. piratory protection. |
| | | P304 + P340 IF keep comfortat P333 + P313 If vice/ attention. P342 + P311 If POISON CENT | F ON SKIN: Wash with plenty of water. F INHALED: Remove person to fresh air and ble for breathing. F skin irritation or rash occurs: Get medical ad- f experiencing respiratory symptoms: Call a FER/ doctor. Fake off contaminated clothing and wash it before |
| | | Disposal: P501 Dispose disposal plant. | of contents/ container to an approved waste |

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) |
|-------------------------------|-----------|-----------------------|
| White mineral oil (petroleum) | 8042-47-5 | >= 60 -<= 100 |
| cloxacillin | 61-72-3 | >= 10 -< 30 |
| ampicillin | 69-53-4 | >= 2.5 -< 10 |
| Hydroxyaluminum distearate | 300-92-5 | < 10 |

4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|-------------------------|---|--|
| If inhaled | : | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| In case of skin contact | : | In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. |



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| lf s an de Pr | case of eye contact swallowed ost important symptoms id effects, both acute and elayed otection of first-aiders | : : : | Flush eyes with w Get medical atten If swallowed, DO Get medical atten Rinse mouth thor May cause an alle May cause allergy ties if inhaled. Excessive expose other respiratory of tive airways dysfu First Aid responde and use the recor when the potentia | shoes before reuse. vater as a precaution. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur. oughly with water. ergic skin reaction. y or asthma symptoms or breathing difficul- ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac- unction syndrome). ers should pay attention to self-protection, nmended personal protective equipment al for exposure exists (see section 8). cally and supportively. |
| 5. FIRE | FIGHTING MEASURES | | | |
| Su | Suitable extinguishing media | | Water spray Alcohol-resistant Carbon dioxide (C Dry chemical | |
| | nsuitable extinguishing edia | : | None known. | |
| | becific hazards during fire- hting | : | Exposure to comb | pustion products may be a hazard to health. |
| Ha uc | azardous combustion prod- ts | : | Carbon oxides Chlorine compour Nitrogen oxides (I Sulphur compoun Sulphur oxides Metal oxides | NOx) |
| Sr od | becific extinguishing meth- Is | : | cumstances and t Use water spray t | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do |
| | pecial protective equipment r firefighters | : | | e, wear self-contained breathing apparatus. tective equipment. |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- : | Use personal protective equipment. |
|---------------------------------|---|
| tive equipment and emer- | Follow safe handling advice (see section 7) and personal pro- |
| gency procedures | tective equipment recommendations (see section 8). |



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| I | Enviror | nmental precautions | : | Prevent spreading barriers). Retain and dispos | akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages |
| | | Is and materials for ment and cleaning up | : | For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1 | t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements. |
| 7. HA | | NG AND STORAGE | | | |
| I | Local/T | cal measures otal ventilation on safe handling | :::: | CONTROLS/PER Use only with ade Do not get on skir Do not breathe va Do not swallow. Avoid contact with Handle in accorda practice, based or sessment Keep container tig Already sensitised to asthma, allergie should consult the tory irritants or set | n or clothing. apours. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira- |
| (| Conditi | ons for safe storage | : | Keep in properly I Keep tightly close | abelled containers. d. ce with the particular national regulations. |
| I | Materia | als to avoid | : | | tions on storage with other products. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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| Componente | | Value ture | Control normers | Deele |
|-------------------------------------|----------------|--------------------|---------------------------------------|----------------|
| Components | CAS-No. | Value type | Control parame- ters / Permissible | Basis |
| | | (Form of | | |
|) A (hite and all all (notice laws) | 0040 47 5 | exposure) | concentration | |
| White mineral oil (petroleum) | 8042-47-5 | NAB (Mist) | 5 mg/m3 | ID OEL |
| | | PSD (Mist) | 10 mg/m3 | ID OEL |
| | | TWA (Inhal- | 5 mg/m3 | ACGIH |
| | | able particu- | | |
| | | late matter) | | |
| cloxacillin | 61-72-3 | TWA | 100 µg/m3 (OEB 2) | Internal |
| | Further inform | nation: RSEN, DS | SEN | |
| | | Wipe limit | 100 µg/100 cm2 | Internal |
| ampicillin | 69-53-4 | TWA | 0.6 mg/m3 (OEB 2) | Internal |
| | Further inform | nation: RSEN | . / | |
| Hydroxyaluminum distearate | 300-92-5 | NAB | 10 mg/m3 | ID OEL |
| | | | fied as carcinogenic | |
| | | | materials as carcinog | |
| | mans or anim | | | |
| | | NAB (Res- | 1 mg/m3 | ID OEL |
| | | pirable par- | (Aluminium) | |
| | | ticulate mat- | (| |
| | | ter) | | |
| | Further inform | nation: Not classi | fied as carcinogenic | to humans. Not |
| | | | materials as carcinog | |
| | mans or anim | | 0 | |
| | | TWA (Inhal- | 10 mg/m3 | ACGIH |
| | | able particu- | 5 | |
| | | late matter) | | |
| | | TWA (Res- | 3 mg/m3 | ACGIH |
| | | pirable par- | | |
| | | ticulate mat- | | |
| | | ter) | | |
| | | TWA (Res- | 1 mg/m3 | ACGIH |
| | | pirable par- | (Aluminium) | |
| | | ticulate mat- | | |
| 1 | | ter) | 1 | |

| Engineering measures : | Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment. |
|-------------------------------|--|
| Personal protective equipment | |
| Respiratory protection : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. |
| Filter type : | Combined particulates and organic vapour type |



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| | | | | | |
| Hand protection Material | | : Chemical-resista | ant gloves | | |
| Eye protection | | : Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. | | | |
| | and body protection ene measures | eye flushing sys ing place. When using do Contaminated w workplace. Wash contamina The effective op engineering con appropriate deg | nemical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. York clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | cream |
|---|---|--|
| Colour | : | off-white |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| | | |
| Flash point | : | No data available |
| Flash point Evaporation rate | : | No data available Not applicable |
| | : | |
| Evaporation rate | | Not applicable |
| Evaporation rate Flammability (solid, gas) | : | Not applicable No data available No data available |





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| | | | | |
| | | | | |
| Vapo | ur pressure | : | Not applicable | |
| Relati | ive vapour density | : | Not applicable | |
| Relati | ive density | : | No data available | e |
| Densi | ity | : | No data available | e |
| | ility(ies) ater solubility | : | No data available | e |
| | ion coefficient: n- | : | Not applicable | |
| | ol/water ignition temperature | : | No data available | e |
| Deco | mposition temperature | : | No data available | e |
| Visco Vis | sity scosity, kinematic | : | Not applicable | |
| Explo | sive properties | : | Not explosive | |
| Ovidi | | | | r mixture is not eleccified as evidining |
| Oxidiz | zing properties | ÷ | The substance o | r mixture is not classified as oxidizing. |
| Molec | cular weight | : | No data available | e |
| | ele characteristics le size | : | < 30 µm | |

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.



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| | | | | | | |
| <u>Com</u> | oonents: | | | | | |
| White | e mineral oil (petroleun | n): | | | | |
| | e oral toxicity | : | LD50 (Rat): > 5,0 | 00 mg/kg | | |
| Acute | inhalation toxicity | : | LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inha tion toxicity | | | |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > Assessment: The toxicity | 2,000 mg/kg substance or mixture has no acute dermal | | |
| cloxa | cillin: | | | | | |
| Acute | e oral toxicity | : LD50 (Rat): 5,000 mg/kg | |) mg/kg | | |
| | | | LD50 (Mouse): 5, | ,000 mg/kg | | |
| | e toxicity (other routes of nistration) | : | LD50 (Mouse): 1, Application Route | | | |
| | | | LD50 (Mouse): 9 ⁻ Application Route | | | |
| | | | LD50 (Mouse): 1, Application Route | | | |
| | | | LD50 (Rat): 1,660 Application Route | | | |
| | | | LD50 (Rat): 4,200 Application Route | | | |
| ampi | cillin: | | | | | |
| - | oral toxicity | : | LD50 (Rat): 10,00 | 00 mg/kg | | |
| | | | LD50 (Mouse): 1 | 5,200 mg/kg | | |
| | e toxicity (other routes of nistration) | : | LD50 (Rat): 6,200 Application Route | | | |
| | | | LD50 (Mouse): 4, Application Route | | | |
| Hvdro | oxyaluminum distearat | te: | | | | |
| | e oral toxicity | : | | e): > 2,000 mg/kg est Guideline 423 on data from similar materials | | |





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| Ac | ute inhalation toxicity | : | LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD Te | h dust/mist |
| - | in corrosion/irritation t classified based on availa | able | information. | |
| <u>Co</u> | mponents: | | | |
| Wł | nite mineral oil (petroleur | n): | | |
| | ecies sult | : | Rabbit No skin irritation | |
| | oxacillin: marks | : | Not classified due | to lack of data. |
| Ну | droxyaluminum disteara | te: | | |
| Me | ecies ethod marks | : | OECD Test Guide | nan epidermis (RhE) eline 431 m similar materials |
| Me | ecies ethod marks | : | OECD Test Guide | nan epidermis (RhE) eline 439 m similar materials |
| Re | sult | : | No skin irritation | |
| | rious eye damage/eye irr t classified based on availa | | | |
| <u>Co</u> | mponents: | | | |
| Wh | nite mineral oil (petroleur | n): | | |
| | ecies sult | : | Rabbit No eye irritation | |
| clo | oxacillin: | | | |
| Re | marks | : | Not classified due | to lack of data. |
| Ηv | droxyaluminum disteara | te: | | |
| Sp | ecies | : | Bovine cornea | |
| | ethod marks | : | OECD Test Guide Based on data fro | eline 437 m similar materials |
| - | sult | : | No eye irritation | |
| | | | | |



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|----------------|---------------------------|---------|---|---|--|--|
| | | | | | | |
| | | | | | | |
| Resp | iratory or skin sensi | tisatio | on | | | |
| - | sensitisation | _ | | | | |
| - | ause an allergic skin | | on. | | | |
| - | iratory sensitisation | | notoms or breathin | ng difficulties if inhaled. | | |
| - | oonents: | la oyn | | | | |
| | e mineral oil (petrole | um). | | | | |
| Test | | | Buehler Test | | | |
| Expos | sure routes | : | Skin contact | | | |
| Speci | | : | Guinea pig | | | |
| Resul | IT | : | negative | | | |
| cloxa | cillin: | | | | | |
| Expos | sure routes | : | Dermal | | | |
| | ssment | : | Probability or evidence of skin sensitisation in humans | | | |
| Resul | lt | : | positive | | | |
| Asses | ssment | : | | spiratory sensitisation in humans based o | | |
| Resul | lt | : | animal testing : positive | | | |
| | | | | | | |
| ampi | | | | | | |
| | sure routes | : | Inhalation | | | |
| Resul | IT | : | Sensitiser | | | |
| Hydro | oxyaluminum distea | rate: | | | | |
| Test | | : | Local lymph noc | le assay (LLNA) | | |
| | sure routes | : | Skin contact | | | |
| Speci Metho | | : | Mouse OECD Test Gui | deline 429 | | |
| Resul | | | negative | | | |
| Rema | | : | negative Based on data from similar materials | | | |
| Gorm | cell mutagenicity | | | | | |
| | assified based on ava | ailable | information. | | | |
| <u>Com</u> | oonents: | | | | | |
| White | e mineral oil (petrole | um): | | | | |
| Geno | toxicity in vitro | : | Test Type: In vit Result: negative | ro mammalian cell gene mutation test | | |
| Geno | toxicity in vivo | : | cytogenetic assa | | | |
| | | | Species: Mouse | te: Intraperitoneal injection | | |

Application Route: Intraperitoneal injection



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| | | | |
| | | Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials | |
| cloxa | cillin: | | |
| Geno | toxicity in vitro | Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. | rom |
| Geno | toxicity in vivo | Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. | rom |
| ampie | cillin: | | |
| | toxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) Result: negative | |
| | | Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative | |
| | | Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Result: negative | |
| | | Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative | |
| | | Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative | |
| Geno | toxicity in vivo | : Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative | |
| Hydro | oxyaluminum distea | ate: | |
| - | toxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials | |
| | | Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative | |
| | | | |



| : Based on data from similar materials n. |
|---|
| n. |
| n. |
| |
| |
| |
| |
| |
| |
| |
| S |
| |
| |
| ified due to lack of data. |
| |
| |
| |
| |
| g body weight |
| Leukaemia, breast tumors |
| |
| |
| |
| /kg body weight |
| |
| imor(s) |
| f evidence does not support classification as a ca |
| |
| n. |
| |
| |
| e: One-generation reproduction toxicity study |
| Rat |
| |
| on Route: Skin contact |
| |
| on Route: Skin contact egative |
| on Route: Skin contact egative e: Embryo-foetal development |
| on Route: Skin contact egative |
| |

cloxacillin:



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| | | | |
| Effec | ts on fertility | Species: Ra Application Fertility: NC | Multi-generation study at Route: Oral DAEL: 500 mg/kg body weight effects on fertility, No effects on reproduction pa- |
| Effec ment | ts on foetal develop- | Species: Ra Application Developme | Development abbit Route: Oral ntal Toxicity: NOAEL: 100 mg/kg body weight malformations were observed. |
| | | Species: Ra Application Developme | Development abbit Route: Intramuscular ntal Toxicity: NOAEL: 250 mg/kg body weight effects on foetal development |
| ampi | cillin: | | |
| - | ts on fertility | : Test Type: Species: G Target Orga | |
| Effec ment | ts on foetal develop- | Species: Ra Developme | Development at ntal Toxicity: NOAEL: 250 mg/kg body weight effects on foetal development |
| Hydr | oxyaluminum disteara | ate: | |
| • | ts on fertility | : Test Type: Species: Ra Application Method: Of Result: neg | Route: Ingestion ECD Test Guideline 416 |
| Effec ment | ts on foetal develop- | Species: Ra Application Method: Of Result: neg | Route: Ingestion ECD Test Guideline 416 |

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.



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| | | | | |
| - | eated dose toxicity | | | |
| | e mineral oil (petrole | um). | | |
| Spec | | umj. : | Rat | |
| LÒA | EL | : | 160 mg/kg | |
| | ication Route osure time | : | Ingestion 90 Days | |
| Spec LOA | | : | Rat | |
| - | ⊏∟ ication Route | : | >= 1 mg/l inhalation (dust/ | mist/fume) |
| Expo | osure time | : | 4 Weeks | |
| Meth | lod | : | OECD Test Guid | deline 412 |
| | acillin: | | | |
| Spec LOA | | : | Rat 7,000 mg/kg | |
| | ication Route | : | Intravenous | |
| | osure time | : | 4 Weeks | |
| Sym | ptoms | : | Hypoglycemia | |
| - | icillin: | | | |
| Spec LOA | | : | Rat | |
| - | ⊏∟ ication Route | : | 3,000 mg/kg Oral | |
| Expo | osure time | : | 13 Weeks | |
| Sym | ptoms | : | Diarrhoea | |
| Spec LOA | | : | Mouse 2,000 mg/kg | |
| | ⊏∟ ication Route | : | 2,000 mg/kg Oral | |
| | osure time | : | 13 Weeks | |
| Sym | ptoms | : | Diarrhoea | |
| Spec LOA | | : | Rat | |
| | ⊏∟ ication Route | : | 750 mg/kg Oral | |
| Expo | osure time | : | 2 yr | |
| | et Organs ptoms | : | Thyroid, forestor Diarrhoea, Saliv | nach ation, decreased activity |
| Spec | | : | Mouse | |
| LOA Appl | EL ication Route | : | 2,000 mg/kg Oral | |
| | osure time | : | 2 yr | |
| Targ | et Organs | : | forestomach | mention france information - |
| Sym | ptoms | : | Ulceration, Inflar | nmation, fungal infections |



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| - | ation toxicity assified based on ava | ailable | information. | |
| Expe | rience with human e | exposi | ure | |
| Comp | oonents: | | | |
| cloxa | cillin: | | | |
| Inhala Skin c | ation contact | : | Remarks: May o Symptoms: Derr Remarks: May in | |
| Eye c Ingest | ontact tion | : | Remarks: May in Symptoms: May | |
| ampio | cillin: | | | |
| Inhala | ation | : | Symptoms: Asth Remarks: May of ing difficulties if | ause allergy or asthma symptoms or breath |
| Ingest | tion | : | • | rash, Nausea, Diarrhoea, Vomiting, colitis, |

12. ECOLOGICAL INFORMATION

| Ecotoxicity | | | | | | |
|---|---|---|--|--|--|--|
| Components: | | | | | | |
| White mineral oil (petroleum): | | | | | | |
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 | | | | |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 | | | | |
| Toxicity to algae/aquatic plants | : | NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 | | | | |
| Toxicity to fish (Chronic tox- icity) | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d | | | | |
| Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | : | NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d | | | | |
| ampicillin: Toxicity to fish | : | LC50 (Oryzias latipes (Japanese medaka)): > 1,000 mg/l Exposure time: 96 h | | | | |



| ersion 4 | Revision Date: 2024/09/28 | | DS Number: 843368-00006 | Date of last issue: 2023/12/05 Date of first issue: 2022/08/30 |
|------------------------------|---|--|--|---|
| | | | | chus mykiss (rainbow trout)): > 100 mg/l |
| | | | Exposure time: 9 | |
| | ity to daphnia and other tic invertebrates | : | EC50 (Daphnia r Exposure time: 4 | nagna (Water flea)): > 100 mg/l ¦8 h |
| Toxic plants | ity to algae/aquatic s | : | Exposure time: 7 | a flos-aquae): 190 μg/l /2 h Γest Guideline 201 |
| | | | Exposure time: 7 | a flos-aquae): 13 μg/l 2 h Γest Guideline 201 |
| | | | mg/l Exposure time: 7 | rchneriella subcapitata (green algae)): > 100 '2 h Fest Guideline 201 |
| | | | mg/l Exposure time: 7 | irchneriella subcapitata (green algae)): 100 '2 h Fest Guideline 201 |
| M-Fa | ctor (Acute aquatic tox- | : | 1 | |
| Toxicity to microorganisms : | | EC50: > 1,000 m Exposure time: 3 Test Type: Resp Method: OECD T | 5 ĥ | |
| | | | NOEC: 9 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 | |
| Hydro | oxyaluminum distearat | e: | | |
| | oxicology Assessment nic aquatic toxicity | : | No toxicity at the | limit of solubility |
| Persi | stence and degradabili | ty | | |
| Com | ponents: | | | |
| | e mineral oil (petroleum egradability | ו): : | Result: Not readi Biodegradation: Exposure time: 2 | |
| | | | | |

ampicillin:



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|--------------------------------|---|---|--|--|--|
| | | | | | |
| | | | | | |
| Biodegradability | | | | | |
| | | Exposure time: | 28 d | | |
| | | Method: OECD | Test Guideline 301B | | |
| oxyaluminum disteara | ate: | | | | |
| gradability | : | , | biodegradable. d on data from similar materials | | |
| | | Remarks. Dased | | | |
| cumulative potential | | | | | |
| oonents: | | | | | |
| cillin: | | | | | |
| on coefficient: n- ol/water | : | log Pow: 2.44 | | | |
| cillin: | | | | | |
| on coefficient: n- ol/water | : | log Pow: -2.0 pH: 7 | | | |
| oxyaluminum disteara | ate: | | | | |
| on coefficient: n- | : | log Pow: 15.088 | | | |
| ol/water | | Remarks: Calcu | lation | | |
| lity in soil | | | | | |
| ita available | | | | | |
| adverse effects | | | | | |
| ita available | | | | | |
| SAL CONSIDERATIO | NS | | | | |
| osal methods | | | | | |
| e from residues | : | Do not dispose | of waste into sewer. | | |
| minated packaging | | Dispose of in ac | cordance with local regulations. | | |
| umnaleu packaging | • | Empty containers should be taken to an approved waste h dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. | | | |
| SPORT INFORMATIO | N | | | | |
| national Regulations | | | | | |
| ſDG | | | | | |
| umber | : | Not applicable | | | |
| | Dysaluminum disteara gradability cumulative potential Donents: cillin: on coefficient: n-ol/water cillin: on coefficient: n-ol/water cillin: on coefficient: n-ol/water convaluminum disteara on coefficient: n-ol/water convalues dot coefficient: n-ol/water convalues convalues convalues convalues convalues on coefficient convalues convalues convalues convalues convalues convalues on coefficient convalues convalues convalues | Dysaluminum distearate: gradability cumulative potential Donents: cillin: on coefficient: n- cillin: on coefficient: n- col/water concoefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- con | Biodegradation: Exposure time: Method: OECD oxyaluminum distearate: gradability : Result: Readily Remarks: Based ccumulative potential on coefficient: n- : log Pow: 2.44 ol/water cillin: on coefficient: n- : log Pow: -2.0 pH: 7 oxyaluminum distearate: on coefficient: n- : log Pow: -2.0 ph: 7 ox | | |



| lly hazardous ng name c | | Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable | | |
|-------------------------------|--|--|--|---|
| ction (cargo | : | Not applicable Not applicable Not applicable Not applicable Not applicable | | |
| ction (passen- | : | Not applicable | | |
| < | | Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable | | |
| - | - | | POL 73/78 and the I | BC Code |
| | r | | | |
| | e for product as autions for use e Y INFORMATIO | k : ant : bulk according to e for product as sup autions for user Y INFORMATION | ng name : Not applicable Not applicable Solutions for user Not applicable Not applicable | Ing name : Not applicable : Not applicable k : Not applicable : Not applicable : Not applicable : Not applicable : Not applicable bulk according to Annex II of MARPOL 73/78 and the I e for product as supplied. autions for user |

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized Sys-

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

Hazardous substances that must be registered : Not applicable

tem of Classification and Labelling of Chemicals.

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

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



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| | | | |

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

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

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

| Revision Date | : | 2024/09/28 | | | |
|---|---|--|--|--|--|
| Further information | | | | | |
| Sources of key data used to compile the Safety Data Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ | | | |
| Date format | : | yyyy/mm/dd | | | |
| Full text of other abbreviations | | | | | |
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) | | | |
| ID OEL | : | Indonesia. Occupational Exposure Limits | | | |
| ACGIH / TWA ID OEL / NAB ID OEL / PSD | : | 8-hour, time-weighted average Long term exposure limit Short term exposure limit | | | |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized 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



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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 intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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