according to GB/T 16483 and GB/T 17519



Gentamicin / Betamethasone Formulation

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1. PRODUCT AND COMPANY IDENTIFICATION

| Product name | : | Gentamicin / Betamethasone Formulation |
|--|-----------|--|
| Manufacturer or supplier's de Company | etai : | i ls MSD |
| Address | : | No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331 |
| Telephone | : | +1-908-740-4000 |
| Emergency telephone number | : | 86-571-87268110 |
| E-mail address | : | EHSDATASTEWARD@msd.com |
| Recommended use of the ch | em | ical and restrictions on use |
| Recommended use Restrictions on use | : | Veterinary product Not applicable |

2. HAZARDS IDENTIFICATION

Emergency Overview

| Appearance Colour Odour | : | liquid No data available No data available |
|--|---|--|
| May damage the unborn child. sure. Very toxic to aquatic life v | | uses damage to organs through prolonged or repeated expo- long lasting effects. |
| GHS Classification | | |
| Reproductive toxicity | : | Category 1A |
| Specific target organ toxicity - repeated exposure | : | Category 1 |
| Short-term (acute) aquatic hazard | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 1 |

GHS label elements

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| Hazar | d pictograms | | |
| Signal | word | : Danger | |
| Hazar | d statements | H372 Causes exposure. | damage the unborn child. s damage to organs through prolonged or repeated xic to aquatic life with long lasting effects. |
| Preca | utionary statements | P202 Do not and understo P260 Do not P264 Wash s P270 Do not P273 Avoid re | breathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment. rotective gloves/ protective clothing/ eye protec- |
| | | Response: P308 + P313 attention. P391 Collect | IF exposed or concerned: Get medical advice/ spillage. |
| | | Storage: P405 Store lo | ocked up. |
| | | Disposal: | e of contents/ container to an approved waste |

Not classified based on available information.

Health hazards

May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

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Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|------------------------------|-----------|-----------------------|
| Polyethylene glycol stearate | 9004-99-3 | 5 |
| Gentamicin | 1403-66-3 | 0.49 |
| betamethasone | 378-44-9 | 0.1 |
| Benzalkonium chloride | 8001-54-5 | 0.01 |

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. 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. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed Protection of first-aiders | : | May damage the unborn child. Causes damage to organs through prolonged or repeated 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. |
| 5. FIREFIGHTING MEASURES | | |
| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |

Specific hazards during fire- : Exposure to combustion products may be a hazard to health. fighting

Hazardous combustion prod- : Carbon oxides ucts

Unsuitable extinguishing : None known.

media

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| Spe ods | cific extinguishing meth- | : | cumstances and tuse water spray to | g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do |
| | cial protective equipment irefighters | : | | e, wear self-contained breathing apparatus. tective equipment. |
| 6. ACCII | DENTAL RELEASE MEA | SUF | RES | |
| tive | sonal precautions, protec- equipment and emer- cy procedures | : | Follow safe hand | tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8). |
| Env | ironmental 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 oi se of contaminated wash water. should be advised if significant spillages |
| | hods and materials for tainment and cleaning up | : | For large spills, p ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the c mine which regula Sections 13 and | t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- trial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. IS of this SDS provide information regarding tional requirements. |
| 7. HAND | LING AND STORAGE | | | |
| Har | dling | | | |
| Тес | hnical measures | : | See Engineering | measures under EXPOSURE |

| Technical measures | : | See Engineering measures under EXPOSURE |
|-------------------------|---|---|
| | | CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation. |
| Advice on safe handling | : | Do not get on skin or clothing. |
| | | Do not breathe mist or vapours. |
| | | Do not swallow. |
| | | Avoid contact with eyes. |
| | | Do not swallow. |

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| Avoid | dance of contact | : | Handle in accord practice, based o sessment Keep container tig Do not eat, drink | ghly after handling. ance with good industrial hygiene and safety n the results of the workplace exposure as- ghtly closed. or smoke when using this product. rent spills, waste and minimize release to the |
| Stor | age | | | |
| | litions for safe storage rials to avoid | : | Store locked up. Keep tightly close Store in accordar | nce with the particular national regulations. the following product types: |
| Pack | aging material | : | Unsuitable mater | ial: None known. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|------------------------------|----------------|--|--|----------|
| Polyethylene glycol stearate | 9004-99-3 | TWA (Inhal- able particu- late matter) | 10 mg/m3 | ACGIH |
| | | TWA (Res- pirable par- ticulate mat- ter) | 3 mg/m3 | ACGIH |
| Gentamicin | 1403-66-3 | TWA | 0.1 mg/m3 (OEB 2) | Internal |
| | Further inform | nation: OTO | | |
| betamethasone | 378-44-9 | TWA | 1 µg/m3 (OEB 4) | Internal |
| | Further inform | nation: Skin | | |
| | | Wipe limit | 10 µg/100 cm ² | Internal |

Components with workplace control parameters

Engineering measures

 All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
 Essentially no open handling permitted.
 Use closed processing systems or containment technologies.
 If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.

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Personal protective equipment

| Respiratory protection Filter type Eye/face protection | s F V If P | f adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type Wear safety glasses with side shields or goggles. f the work environment or activity involves dusty conditions, nists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
|--|------------------------------------|---|
| Skin and body protection | V A ta D | Nork uniform or laboratory coat. Additional body garments should be used based upon the ask being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. |
| Hand protection | | |
| Material | C | Chemical-resistant gloves |
| Remarks Hygiene measures | lf ir V T e a ir | Consider double gloving. f exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ng place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, ndustrial hygiene monitoring, medical surveillance and the use of administrative controls. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|---|---|-------------------|
| Colour | : | No data available |
| 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 |

according to GB/T 16483 and GB/T 17519



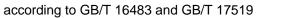
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|--|----------------|---------------------------|-----------------------------|---|
|--|----------------|---------------------------|-----------------------------|---|

| Evaporation rate | : | No data available |
|---|---|--|
| Flammability (solid, gas) | : | Not applicable |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | No data available |
| Solubility(ies) Water solubility | : | No data available |
| Partition coefficient: n- octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | No data available |
| Viscosity, kinematic | : | |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Molecular weight | : | No data available |
| Particle characteristics Particle size | : | No data available |

10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|--------------------------------|---|---|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reac- | : | Can react with strong oxidizing agents. |
| tions | | |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | Oxidizing agents |





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| | ardous decomposition ducts | : | No hazardous | s decomposition products are known. |
| 1. ТОХ | ICOLOGICAL INFORMAT | | N | |
| Exp | osure routes | : | Inhalation Skin contact Ingestion Eye contact | |
| Not | Ite toxicity classified based on availa | ble | information. | |
| | duct: te inhalation toxicity | : | Acute toxicity Exposure time Test atmosphe Method: Calcu | ere: dust/mist |
| <u>Cor</u> | nponents: | | | |
| | yethylene glycol stearate te oral toxicity |): : | LD50 (Rat): > | 5,000 mg/kg |
| Ger | ntamicin: | | | |
| Acu | te oral toxicity | : | LD50 (Rat): 8, | 000 - 10,000 mg/kg |
| | | | LD50 (Mouse) | : 10,000 mg/kg |
| Acu | te inhalation toxicity | : | LC50 (Rat): > Exposure time Test atmosphe Remarks: No r | :: 4 h |
| | te toxicity (other routes of ninistration) | : | | 7 - 96 mg/kg oute: Intravenous |
| | | | | 71 - 384 mg/kg bute: Intramuscular |
| | | | LDLo (Monkey Application Ro | /): 30 mg/kg bute: Intravenous |
| beta | amethasone: | | | |
| Acu | te oral toxicity | : | LD50 (Rat): > | 5,000 mg/kg |
| | | | LD50 (Mouse) | : > 4,500 mg/kg |
| Acu | te inhalation toxicity | : | LC50 (Rat): 0. Exposure time | |

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| 11 | | |
|--|-----|--|
| Benzalkonium chloride: | | |
| Acute oral toxicity | : | LD50 (Rat): 240 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat, male): > 0.05 - 0.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract. Remarks: Based on data from similar materials |
| Acute dermal toxicity | : | LD50 (Rat, female): 704 mg/kg |
| Skin corrosion/irritation Not classified based on availab | ole | information. |
| <u>Components:</u> | | |
| Polyethylene glycol stearate | : | |
| Species | | Rabbit |
| Method | : | Draize Test |
| Result | : | No skin irritation |
| Gentamicin: | | |
| Species | : | Rabbit |
| Result | : | Mild skin irritation |
| betamethasone: | | |
| Species | : | Rabbit |
| Result | : | Mild skin irritation |
| Benzalkonium chloride: | | |
| Species | | Human |
| Result | ÷ | Corrosive after 4 hours or less of exposure |
| Serious eye damage/eye irrit | | on |
| Components: | | |
| Polyethylene glycol stearate | : | |
| Species | : | Rabbit |
| Result | : | No eye irritation |
| Method | : | Draize Test |
| Gentamicin: | | |
| Species | : | Rabbit |
| | | |

Species

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| | | | | |
| Resu | lt | : | Mild eye irritation | |
| betan | nethasone: | | | |
| Speci | | : | Rabbit | |
| Resu | lt | : | No eye irritation | |
| | alkonium chloride: | | | |
| Speci Resul | | : | Rabbit Irreversible effect | s on the eve |
| itesu | it. | • | | s on the eye |
| Resp | iratory or skin sensi | tisatio | on | |
| - | sensitisation | | | |
| | lassified based on ava | | information. | |
| - | iratory sensitisation | | informer etics | |
| | lassified based on ava | allable | information. | |
| | oonents: | | | |
| | ethylene glycol stear | ate: | 0 | - 1 |
| Test Expos | i ype sure routes | : | Open epicutaneo Skin contact | us test |
| Speci | | : | Guinea pig | |
| Resu | lt | : | negative | |
| Genta | amicin: | | | |
| Rema | arks | : | No data available | |
| betan | nethasone: | | | |
| | sure routes | : | Dermal | |
| Speci | | : | Guinea pig | |
| Resu | IT | : | Weak sensitizer | |
| Benz | alkonium chloride: | | | |
| Test | | : | | sult patch test (HRIPT) |
| Expos | sure routes | : | Skin contact Humans | |
| Resu | | : | negative | |
| Corr | | | | |
| | cell mutagenicity lassified based on available | ailahle | information | |
| | | | | |
| | oonents: | | | |
| | ethylene glycol stear | | Test Tupo: Posto | rial reverse mutation access (AMES) |
| Geno | toxicity in vitro | : | rest type: bacte | rial reverse mutation assay (AMES) |

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| | | Result: neg | ative |
| | | Result. Heg | |
| Genta | micin: | | |
| Genot | oxicity in vitro | : Test Type: I Result: neg | In vitro mammalian cell gene mutation test ative |
| | | Test Type: (Result: equi | Chromosome aberration test in vitro ivocal |
| Genote | oxicity in vivo | cytogenetic Species: Mo | buse Route: Intravenous injection |
| ll hatam | otheoene | · · · · | |
| | ethasone: oxicity in vitro | : Test Type: I Result: neg | Bacterial reverse mutation assay (AMES) ative |
| | | Test Type: I Result: neg | In vitro mammalian cell gene mutation test ative |
| | | Test Type: (Result: posi | Chromosome aberration test in vitro |
| Genot | oxicity in vivo | : Test Type: I cytogenetic Species: Mo Application Result: equi | ouse Route: Oral |
| Germ Asses | cell mutagenicity - sment | : Weight of e cell mutage | vidence does not support classification as a germ n. |
| Benza | Ikonium chloride: | | |
| Genot | oxicity in vitro | : Test Type: I Result: neg | Bacterial reverse mutation assay (AMES) ative |
| | | Method: OE Result: neg | In vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials |
| | | Method: OE Result: neg | Chromosome aberration test in vitro CD Test Guideline 473 ative ased on data from similar materials |
| | | | Mammalian erythrocyte micronucleus test (in vivo |

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| | | | cytogenetic assay Species: Mouse Application Route Method: OECD Te Result: negative | Ingestion est Guideline 474 |
| | nogenicity assified based on availat | ble | | on data from similar materials |
| Comp | oonents: | | | |
| | amicin: nogenicity - Assess- | : | No data available | |
| Specia Applic Expose Methor Resul Rema Specia Applic Expose Resul Resul Specia Applic Expose Resul | eation Route sure time od t surks es cation Route sure time t es cation Route sure time | | Rat Ingestion 2 Years OECD Test Guide negative Based on data fro Mouse Skin contact 80 weeks negative Rabbit Skin contact 90 weeks negative | line 453 m similar materials |
| - | onents: | | | |
| Genta | amicin: s on fertility | : | Species: Rat Fertility: NOAEL: 2 | eneration reproduction toxicity study 20 mg/kg body weight ant adverse effects were reported |
| Effect ment | s on foetal develop- | : | Species: Rabbit Developmental To Result: No embryo | o-foetal development oxicity: NOAEL: 3.6 mg/kg body weight o-foetal toxicity o-foetal development |

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| Repro | oductive toxicity - As- ment | Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 75 mg/kg body weight Result: Embryo-foetal toxicity Test Type: Embryo-foetal development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: foetal mortality, No malformations were observed. Test Type: Embryo-foetal development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 50 mg/kg body weight Result: foetal mortality, No malformations were observed. Positive evidence of adverse effects on development from human epidemiological studies. |
| | methasone: ts on foetal develop- | Species: Rabbit Application Route: Intramuscular Developmental Toxicity: LOAEL: 0.05 mg/kg body weight Result: Fetotoxicity, Malformations were observed. |
| | | Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0.42 mg/kg body weight Result: Malformations were observed. |
| | | Species: Mouse Application Route: Intramuscular Developmental Toxicity: LOAEL: 1 mg/kg body weight Result: Malformations were observed. |
| Repro | oductive toxicity - As- ment | : Clear evidence of adverse effects on development, based on animal experiments. |
| | z alkonium chloride: ts on fertility | : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials |
| Effec ment | ts on foetal develop- | : Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion |

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| | | Result: negativ | D Test Guideline 414 /e ed on data from similar materials |
| | - single exposure | | |
| | lassified based on av | | |
| | repeated exposure es damage to organs | through prolonged or | repeated exposure. |
| | ponents: | | |
| | amicin: | | |
| Targe | et Organs ssment | : Kidney, inner e : Causes damag exposure. | ear ge to organs through prolonged or repeated |
| betar | nethasone: | | |
| Targe | et Organs | | , Immune system, muscle, thymus gland, Bloo |
| Asses | ssment | Adrenal gland : Causes damag exposure. | ge to organs through prolonged or repeated |
| Benz | alkonium chloride: | | |
| Asses | ssment | | health effects observed in animals at concentra g/kg bw or less. |
| Repe | ated dose toxicity | | |
| <u>Com</u> | oonents: | | |
| Genta | amicin: | | |
| Speci LOAE | | : Dog | |
| | cation Route | : 3 mg/kg : Intramuscular | |
| Expo | sure time | : 12 Months | |
| Targe Symp | et Organs otoms | : Kidney : Vomiting, Saliv | vation |
| Speci | es | : Monkey | |
| LÒAE | EL | : 50 mg/kg | |
| | cation Route sure time | : Subcutaneous : 3 Weeks | |
| | et Organs | : Kidney, inner | ear |
| Speci | es | : Monkey | |
| LÒAE | EL | : 6 mg/kg | |
| Applic | cation Route sure time | : Intramuscular : 3 Weeks | |

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| | | | | |
| Targe | et Organs | : | Blood, Kidney, ir | nner ear, Liver |
| Species NOAEL LOAEL Application Route Exposure time Target Organs | | | Rat 5 mg/kg 10 mg/kg Intramuscular 52 Weeks Kidney, Blood | |
| Species NOAEL LOAEL Application Route Exposure time Target Organs | | | Rat 12.5 mg/kg 50 mg/kg Intramuscular 13 Weeks Kidney | |
| betar | nethasone: | | | |
| Expo | | | Rabbit 0.05 % Skin contact 10 - 30 d Pituitary gland, I | mmune system, muscle |
| Expo | | | Rat 0.05 % Skin contact 8 Weeks thymus gland | |
| Expo | | | Mouse 0.1 % Skin contact 8 Weeks thymus gland | |
| Expo | | | Dog 0.05 mg/kg Oral 28 d Blood, thymus g | land, Adrenal gland |
| Spec NOAI Appli | | : | Rat >= 100 mg/kg Ingestion 12 Weeks | |

Aspiration toxicity

Not classified based on available information.

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Experience with human exposure

Components:

Gentamicin:

| Ingestion | : | Target Organs: Kidney Target Organs: inner ear Symptoms: Dizziness, Vertigo, hearing loss, tinnitus, fetal deafness |
|----------------------------|---|--|
| betamethasone: | | |
| Inhalation Skin contact | : | Target Organs: Adrenal gland Symptoms: Redness, pruritis, Irritation |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Polyethylene glycol stearate: Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l Exposure time: 96 h Method: DIN 38412 Toxicity to microorganisms : EC10 (Bacteria): > 10,000 mg/l Exposure time: 16 h Gentamicin: Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 86 mg/l aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 30 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035 Toxicity to algae/aquatic EC50 (Pseudokirchneriella subcapitata (green algae)): 10 µg/l : plants Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 1.5 µg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (Anabaena flos-aquae (cyanobacterium)): 4.7 µg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Anabaena flos-aquae (cyanobacterium)): 1.6 µg/l

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according to GB/T 16483 and GB/T 17519

Revision Date:

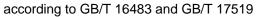


Date of last issue: 2024/04/06

Gentamicin / Betamethasone Formulation

SDS Number:

| rsion) | Revision Date: 2024/09/28 | | 4586-00023 | Date of last issue: 2024/04/06 Date of first issue: 2016/01/06 |
|-------------------|---|---|---------------------------------------|--|
| | | | | |
| | | | Exposure time Method: OEC | : 72 h D Test Guideline 201 |
| M-Fac icity) | tor (Acute aquatic tox- | : | 100 | |
| M-Factoricity | tor (Chronic aquatic | : | 1 | |
| | ý to microorganisms | : | | |
| | ethasone: | | | |
| | ty to daphnia and other c invertebrates | : | EC50 (Americ Exposure time | |
| Toxicit plants | ty to algae/aquatic | : | mg/l Exposure time Method: OECI | okirchneriella subcapitata (green algae)): > 3 :: 72 h D Test Guideline 201 :oxicity at the limit of solubility |
| | | | mg/l Exposure time Method: OECI | okirchneriella subcapitata (green algae)): 3 :: 72 h D Test Guideline 201 :oxicity at the limit of solubility |
| Toxicit icity) | ty to fish (Chronic tox- | : | Exposure time | hales promelas (fathead minnow)): 0.052 m : 32 d D Test Guideline 210 |
| | | | Exposure time | s latipes (Japanese medaka)): 0.07 μg/l : 219 d D Test Guideline 229 |
| | ty to daphnia and other c invertebrates (Chron- city) | : | Exposure time | ia magna (Water flea)): 8 mg/l : 21 d D Test Guideline 211 |
| M-Fac toxicity | tor (Chronic aquatic | : | 1,000 | |
| Benza | Ikonium chloride: | | | |
| Toxicit | ty to fish | : | LC50 (Pimeph Exposure time | ales promelas (fathead minnow)): 0.28 mg/ : 96 h |
| | ty to daphnia and other cinvertebrates | : | EC50 (Daphni Exposure time | a magna (Water flea)): 0.0056 mg/l : 48 h |
| Toxicit | ty to algae/aquatic | : | ErC50 (Chlore | lla pyrenoidosa (algae)): 0.09 mg/l |





| NOEC (Pimephales promelas (fathead minnow)): 0.032 mg/l Exposure time: 34 d | | | |
|--|--|--|--|
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|---------------------|---|---|---|
| N 0 | lobility in soil lo data available Ither adverse effects lo data available | | |
| | SPOSAL CONSIDERATION | IS | |
| с | isposal methods /aste from residues contaminated packaging | Dispose of in ac Empty container dling site for rec | of waste into sewer. cordance with local regulations. 's should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product. |
| 14. TR | ANSPORT INFORMATION | | |
| In | nternational Regulations | | |
| U | NRTDG N number roper shipping name | N.O.S. | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| P La | lass acking group abels nvironmentally hazardous | : 9 : III : 9 : yes | |
| 14 U P | ATA-DGR N/ID No. roper shipping name | : UN 3082 : Environmentally (Gentamicin, Bo | hazardous substance, liquid, n.o.s. enzalkonium chloride) |
| P La P | lass acking group abels acking instruction (cargo ircraft) acking instruction (passen- | : 9 : III : Miscellaneous : 964 : 964 | |
| ge | er aircraft) nvironmentally hazardous | : ves | |
| IN U | IDG-Code IN number roper shipping name | : UN 3082 : ENVIRONMENT N.O.S. | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| P La E | ilass acking group abels mS Code Iarine pollutant | (Gentamicin, Be : 9 : III : 9 : F-A, S-F : yes | nzalkonium chloride) |

according to GB/T 16483 and GB/T 17519



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

Not applicable for product as supplied.

National Regulations

| GB 6944/12268 | | |
|----------------------|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gentamicin, Benzalkonium chloride) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| Marine pollutant | : | no |

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.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

| Regulations on Galety Management of Hazardous C | anennicais |
|---|---|
| Catalogue of Hazardous Chemicals | : This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination. |
| Identification of Major Hazard Installations for Hazardou 18218) | us Chemicals (GB : Not listed |
| Hazardous Chemicals for Priority Management under SAWS | : Not listed |
| Regulations on Labour Protection in Workplaces wi | here Toxic Substances are Used |
| Catalogue of Highly Toxic Chemicals | : Not listed |
| Regulation of Environmental Management on the Fi and Export of Toxic Chemicals | irst Import of Chemicals and the Import |
| China Severely Restricted Toxic Chemicals for Import and Export | : Not listed |
| Regulation on the Administration of Precursor Cher | micals |
| Catalogue and Classification of Precursor Chemicals | · Not listed |

Catalogue and Classification of Precursor Chemicals : Not listed

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Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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 Agency, 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.

| Date format | : | yyyy/mm/dd |
|--------------------------------|----|---|
| Full text of other abbreviatio | ns | |
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH / TWA | : | 8-hour, time-weighted average |

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 Develop-



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ment; 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

Disclaimer

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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