

| Revision Date: 2023/09/30 | | | Date of last issue: 2023/04/04 Date of first issue: 2016/01/06 |
|-------------------------------|--|--|---|
| | | | |
| ICT AND COMPANY IDI | ENT | IFICATION | |
| uct name | : | Gentamicin / Be | tamethasone Formulation |
| facturer or supplier's d | letai | ils | |
| bany | : | MSD | |
| 9SS | : | 126 E. Lincoln A Rahway, New Je | venue ersey U.S.A. 07065 |
| hone | : | 908-740-4000 | |
| gency telephone number | r: | 1-908-423-6000 | |
| il address | : | EHSDATASTEV | VARD@msd.com |
| mmended use of the ch | nem | ical and restriction | ons on use |
| mmended use ictions on use | : | Veterinary produ Not applicable | ict |
| | 2023/09/30 ICT AND COMPANY ID uct name facturer or supplier's o bany ess whone gency telephone number il address mmended use of the cl mmended use | 2023/09/30 434 ICT AND COMPANY IDENT uct name : Infacturer or supplier's detail bany : ess : whone : gency telephone number : il address : mmended use of the chem mmended use : | 2023/09/30 434589-00021 UCT AND COMPANY IDENTIFICATION uct name : Gentamicin / Bei ufacturer or supplier's details bany : MSD ess : 126 E. Lincoln A Rahway, New Jei whone : 908-740-4000 gency telephone number : 1-908-423-6000 il address : EHSDATASTEW mmended use of the chemical and restriction mmended use : Veterinary production |

2. HAZARDS IDENTIFICATION

| GHS Classification | | |
|--|---|---|
| Reproductive toxicity | : | Category 1A |
| Specific target organ toxicity - repeated exposure | : | Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) |
| Short-term (acute) aquatic hazard | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 1 |
| GHS label elements | | |
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H360D May damage the unborn child. H372 Causes damage to organs (Pituitary gland, Immune sys- tem, muscle, thymus gland, Blood, Adrenal gland) through pro- longed or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. |



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| Preca | autionary statements | P202 Do not h and understod P260 Do not b P264 Wash sl P270 Do not e P273 Avoid re | preathe 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 s | IF exposed or concerned: Get medical advice/ |
| | | Storage: P405 Store lo | cked up. |
| | | Disposal: P501 Dispose disposal plant | e of contents/ container to an approved waste |
| | r hazards which do r known. | not result in classifica | ation |

Substance / Mixture : Mixture

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 In case of skin contact | : | If inhaled, remove to fresh air. Get medical attention. In case of contact, immediately flush skin with soap and plenty |
| | | of water. Remove contaminated clothing and shoes. Get medical attention. |

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Gentamicin / Betamethasone Formulation

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| | | | |
| | | | g before reuse. |
| In case | of eye contact | : Flush eyes w | lean shoes before reuse. ith water as a precaution. attention if irritation develops and persists. |
| If swallo | wed | : If swallowed, Get medical a | DO NOT induce vomiting. attention. |
| | portant symptoms cts, both acute and | : May damage | thoroughly with water. the unborn child. age to organs through prolonged or repeated |
| Protectio | on of first-aiders | and use the r | onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8). |
| Notes to | physician | | matically and supportively. |
| 5. FIREFIGH | TING MEASURES | | |
| Suitable | extinguishing media | : Water spray Alcohol-resist Carbon dioxid Dry chemical | de (CO2) |
| Unsuital media | ole extinguishing | : None known. | |
| fighting | hazards during fire- | · | combustion products may be a hazard to health. |
| Hazardo ucts | ous combustion prod- | : Carbon oxide | S |
| Specific ods | extinguishing meth- | cumstances a Use water sp | shing measures that are appropriate to local cir- and the surrounding environment. ray to cool unopened containers. amaged containers from fire area if it is safe to de |
| Special for firefiç | protective equipment ghters | | a. of fire, wear self-contained breathing apparatus. I protective equipment. |
| 6. ACCIDEN | TAL RELEASE MEA | SURES | |
| tive equi | I precautions, protec- ipment and emer- rocedures | Follow safe h | l protective equipment. andling advice (see section 7) and personal pro- ment recommendations (see section 8). |
| Environr | mental precautions | Prevent furthe Prevent sprea barriers). Retain and di | e to the environment. er leakage or spillage if safe to do so. ading over a wide area (e.g. by containment or o ispose of contaminated wash water. ties should be advised if significant spillages ntained. |
| | s and materials for nent and cleaning up | | inert absorbent material. Is, provide dyking or other appropriate contain- |
| | | 3/2 | 21 |



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| | | be pumped, Clean up rei bent. Local or nati posal of this employed in mine which Sections 13 | p material from spreading. If dyked material can store recovered material in appropriate container. maining materials from spill with suitable absor- ional regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- regulations are applicable. and 15 of this SDS provide information regarding or national requirements. |
| 7. HANDL | ING AND STORAGE | | |
| Tech | nical measures | | ering measures under EXPOSURE S/PERSONAL PROTECTION section. |
| Local | I/Total ventilation | | ventilation is unavailable, use with local exhaust |
| Advic | ce on safe handling | : Do not get o Do not brea Do not swal Avoid conta Wash skin tl Handle in ac practice, bas sessment Keep contai Do not eat, o | ct with eyes. horoughly after handling. ccordance with good industrial hygiene and safety sed on the results of the workplace exposure as- ner tightly closed. drink or smoke when using this product. o prevent spills, waste and minimize release to the |
| Cond | litions for safe storage | : Keep in prop Store locked Keep tightly | perly labelled containers. J up. closed. |
| Mate | rials to avoid | | ordance with the particular national regulations. with the following product types: zing agents |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type | Control parame- | Basis |
|------------------------------|-----------|------------------|--|--------|
| | | (Form of | ters / Permissible | |
| | | exposure) | concentration | |
| Polyethylene glycol stearate | 9004-99-3 | NAB | 10 mg/m3 | ID OEL |
| | | classify these r | ied as carcinogenic t naterials as carcinog | |
| | | TWA (Inhal- | 10 mg/m3 | ACGIH |
| | | able particu- | | |
| | | late matter) | | |
| | | TWA (Res- | 3 mg/m3 | ACGIH |



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| | | | pirable par- ticulate mat- ter) | | |
|--|------|--|---|--|---|
| Gentamicin | | 1403-66-3 | TŴA | 0.1 mg/m3 (OEB 2) | Internal |
| | | Further inform | ation: OTO | | |
| betamethasone | | 378-44-9 | TWA | 1 µg/m3 (OEB 4) | Internal |
| | | Further inform | ation: Skin | | |
| | | | Wipe limit | 10 µg/100 cm ² | Internal |
| Engineering measures | : | design and o protect produ Essentially n Use closed p If handled in cabinet, fume tial exists for | perated in accor- licts, workers, and o open handling rocessing syster a laboratory, use e hood, or other of | ns or containment tere a properly designed containment device if f this potential does r | ciples to chnologies. I biosafety the poten- |
| Personal protective equip | ment | | | | |
| Respiratory protection Filter type Hand protection | : | sure assessr | nent demonstrate juidelines, use re | tilation is not availables exposures outside espiratory protection. | |
| Material | : | Chemical-res | sistant gloves | | |
| Remarks | | Consider dou | ible alovina | | |
| Eye protection | : | Wear safety If the work er mists or aero Wear a faces | glasses with side nvironment or ac sols, wear the ap shield or other ful | e shields or goggles. tivity involves dusty c opropriate goggles. Il face protection if the the face with dusts, n | ere is a |
| Skin and body protection | : | Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. | | | ntlets, dis- |
| Hygiene measures | : | If exposure to eye flushing ing place. When using Wash contar The effective engineering appropriate of industrial hyg | o chemical is like systems and safe do not eat, drink ninated clothing l operation of a fa controls, proper p legowning and d | before re-use. acility should include bersonal protective e econtamination proce medical surveillance | the work- review of quipment, edures, |

use of administrative controls.



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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 |
| 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 Viscosity, kinematic | : | No data available |
| Explosive properties | : | Not explosive |



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| | | | | |
| Oxidiz | zing properties | : | The substance c | or mixture is not classified as oxidizing. |
| Molec | ular weight | : | No data availabl | e |
| Partic | le size | : | No data availabl | e |
| 10. STABI | | Y | | |
| | ivity ical stability bility of hazardous reac- | : | Stable under nor | a reactivity hazard. rmal conditions. trong oxidizing agents. |
| Condi Incom | tions to avoid patible materials dous decomposition cts | : | None known. Oxidizing agents No hazardous de | s ecomposition products are known. |
| 11. TOXIC | OLOGICAL INFORMA | TION | N | |
| Inform expos | nation on likely routes of sure | f: | Inhalation Skin contact Ingestion Eye contact | |
| | e toxicity assified based on availa | able | information. | |
| <u>Produ</u> Acute | <u>uct:</u> inhalation toxicity | : | Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat | h : dust/mist |
| Comp | oonents: | | | |
| | thylene glycol stearate oral toxicity | e: : | LD50 (Rat): > 5,0 | 000 mg/kg |
| Genta | amicin: | | | |
| Acute | oral toxicity | : | LD50 (Rat): 8,000 | 0 - 10,000 mg/kg |
| | | | LD50 (Mouse): 10 | 0,000 mg/kg |
| Acute | Acute inhalation toxicity | | Exposure time: 4 Test atmosphere | h |



| Acute toxicity (other routes of administration) LD50 (Rat): 67 - 96 mg/kg Application Route: Intravenous LD50 (Rat): 371 - 384 mg/kg Application Route: Intravenous LD50 (Rat): 371 - 384 mg/kg Application Route: Intravuscular LDL0 (Monkey): 30 mg/kg Application Route: Intravenous LDL0 (Monkey): 30 mg/kg Application Route: Intravenous betamethasone: LD50 (Rat): > 5,000 mg/kg Application Route: Intravenous Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Application Route: Intravenous Acute inhalation toxicity : LC50 (Rat): > 4,500 mg/kg Application Route: Intravenous Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l Exposure time: 4 h Benzalkonium chloride: Exposure time: 4 h Acute oral toxicity : LC50 (Rat, male): > 0.05 - 0.5 mg/l Exposure time: 4 h Acute oral toxicity : LC50 (Rat, female): 704 mg/kg Acute dermal toxicity : LD50 (Rat, female): 704 mg/kg Acute dermal toxicity : Draize Test Acute dermal toxicity : Draize Test Acute dermal toxicity : No skin irritation Acute oral toxicity : No skin irritation Acute oral toxicity : Not classified based on available information. </th <th>administration) betamethasone: Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates</th> <th>:</th> <th>Application Route: LD50 (Rat): 371 - 3 Application Route: LDLo (Monkey): 30 Application Route: LD50 (Rat): > 5,00 LD50 (Rat): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male):</th> <th>: Intravenous 384 mg/kg : Intramuscular 0 mg/kg : Intravenous 00 mg/kg 4,500 mg/kg g/I h ng/kg > 0.05 - 0.5 mg/I</th> | administration) betamethasone: Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | Application Route: LD50 (Rat): 371 - 3 Application Route: LDLo (Monkey): 30 Application Route: LD50 (Rat): > 5,00 LD50 (Rat): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | : Intravenous 384 mg/kg : Intramuscular 0 mg/kg : Intravenous 00 mg/kg 4,500 mg/kg g/I h ng/kg > 0.05 - 0.5 mg/I |
|---|---|-----|---|--|
| administration) Application Route: Intravenous LD50 (Rat): 371 - 384 mg/kg Application Route: Intramuscular LDLo (Monkey): 30 mg/kg Application Route: Intravenous betamethasone: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg LD50 (Mouse): > 4,500 mg/kg Acute inhalation toxicity : LD50 (Rat): 0.4 mg/l Exposure time: 4 h Benzalkonium chloride: Acute oral toxicity : LD50 (Rat): 240 mg/kg Acute inhalation toxicity : LD50 (Rat, male): > 0.05 - 0.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: 0.05 - 0.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Draize Test Result : | administration) betamethasone: Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | Application Route: LD50 (Rat): 371 - 3 Application Route: LDLo (Monkey): 30 Application Route: LD50 (Rat): > 5,00 LD50 (Rat): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | : Intravenous 384 mg/kg : Intramuscular 0 mg/kg : Intravenous 00 mg/kg 4,500 mg/kg g/I h ng/kg > 0.05 - 0.5 mg/I |
| administration) Application Route: Intravenous LD50 (Rat): 371 - 384 mg/kg Application Route: Intramuscular LDLo (Monkey): 30 mg/kg Application Route: Intravenous betamethasone: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg LD50 (Mouse): > 4,500 mg/kg Acute inhalation toxicity : LD50 (Rat): 0.4 mg/l Exposure time: 4 h Benzalkonium chloride: Acute oral toxicity : LD50 (Rat): 240 mg/kg Acute inhalation toxicity : LD50 (Rat, male): > 0.05 - 0.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: 0.05 - 0.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Draize Test Result : | administration) betamethasone: Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | Application Route: LD50 (Rat): 371 - 3 Application Route: LDLo (Monkey): 30 Application Route: LD50 (Rat): > 5,00 LD50 (Rat): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | : Intravenous 384 mg/kg : Intramuscular 0 mg/kg : Intravenous 00 mg/kg 4,500 mg/kg g/I h ng/kg > 0.05 - 0.5 mg/I |
| Application Route: Intramuscular LDLo (Monkey): 30 mg/kg Application Route: Intravenous betamethasone: Acute oral toxicity : LD50 (Mouse): > 4,500 mg/kg LD50 (Mouse): > 4,500 mg/kg Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l Exposure time: 4 h Benzalkonium chloride: Acute oral toxicity : Acute oral toxicity : LC50 (Rat): 240 mg/kg Acute oral toxicity : LC50 (Rat): 240 mg/kg Acute oral toxicity : LC50 (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 : Not classified based on available information. Components: Species : Species : Method : Draize Test < | Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | Application Route: LDLo (Monkey): 30 Application Route: LD50 (Rat): > 5,00 LD50 (Mouse): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | : Intramuscular 0 mg/kg : Intravenous 00 mg/kg 4,500 mg/kg g/l h ng/kg > 0.05 - 0.5 mg/l |
| Application Route: Intravenous betamethasone: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg LD50 (Mouse): > 4,500 mg/kg Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l Exposure time: 4 h Benzalkonium chloride: Acute oral toxicity : LD50 (Rat): 240 mg/kg Acute inhalation 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 available information. Components: Polyethylene glycol stearate: . Species : Result : Method : Draize Test Result : Species : Result : Species : Result : Mid skin irritation Betamethasone: | Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | Application Route: LD50 (Rat): > 5,00 LD50 (Mouse): > 4 LC50 (Rat): 0.4 m Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | : Intravenous 00 mg/kg 4,500 mg/kg g/l h ng/kg > 0.05 - 0.5 mg/l |
| Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg LD50 (Mouse): > 4,500 mg/kg Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l Exposure time: 4 h Benzalkonium chloride: Acute oral toxicity : LD50 (Rat): 240 mg/kg Acute oral toxicity : LD50 (Rat): 240 mg/kg Acute oral toxicity : LD50 (Rat): 240 mg/kg Acute oral 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 available information. Components: Polyethylene glycol stearate: Species : Rabbit Method Species : Rabbit Method Method : Draize Test Result Result : No skin irritation Gentamicin: Result : Mild skin irritation Species : Rabbit Mild skin irritation | Acute oral toxicity Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | LD50 (Mouse): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | 4,500 mg/kg g/l h ng/kg > 0.05 - 0.5 mg/l |
| LD50 (Mouse): > 4,500 mg/kg Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l Exposure time: 4 h 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 available information. Components: Polyethylene glycol stearate: Species : Rabbit Method : Draize Test Result : No skin irritation Sections: Species : Rabbit Result : Mild skin irritation | Acute inhalation toxicity Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | LD50 (Mouse): > 4 LC50 (Rat): 0.4 mg Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | 4,500 mg/kg g/l h ng/kg > 0.05 - 0.5 mg/l |
| Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l Exposure time: 4 h 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 available information. Components: Polyethylene glycol stearate: Species : Result : Method : Draize Test Result : Species : Result : Species : Mild skin irritation Detamethasone: : Species : Bezies : Bezies : Mild skin irritation | Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | LC50 (Rat): 0.4 m Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | g/l h ng/kg > 0.05 - 0.5 mg/l |
| Exposure time: 4 h 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 available information. Components: Polyethylene glycol stearate: Species : Result : No skin irritation Method : Method : Draize Test Result : No skin irritation Exposite : Species : Result : Mild skin irritation betamethasone: : Species : Species : Betamethasone: : Species : Species : Betamethasone: : Sp | Benzalkonium chloride: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | : | Exposure time: 4 h LD50 (Rat): 240 m LC50 (Rat, male): | h ng/kg > 0.05 - 0.5 mg/l |
| 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 available information. Components: Polyethylene glycol stearate: Species : Result : No skin irritation Gentamicin: Species : Result : Mild skin irritation betamethasone: Species : Result : Mild skin irritation | Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab <u>Components:</u> Polyethylene glycol stearates | | LC50 (Rat, male): | > 0.05 - 0.5 mg/l |
| 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 available information. Components: Polyethylene glycol stearate: Species : Result : No skin irritation Method : Draize Test Result : Species : Result : No skin irritation Betamethasone: Species : Result : Mild skin irritation | Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Not classified based on availab Components: Polyethylene glycol stearates | | LC50 (Rat, male): | > 0.05 - 0.5 mg/l |
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| Skin corrosion/irritation Not classified based on available information. Components: Polyethylene glycol stearate: Species : Result : Draize Test Result : No skin irritation Gentamicin: Species : Result : Mild skin irritation betamethasone: Species : Result : | Skin corrosion/irritation Not classified based on availab <u>Components:</u> Polyethylene glycol stearate: | | Test atmosphere: Method: OECD Te Assessment: Corre | dust/mist est Guideline 403 osive to the respiratory tract. |
| Not classified based on available information.Components:Polyethylene glycol stearate:Species:Result:Draize TestResult:No skin irritationGentamicin:Species:Result:Mild skin irritationbetamethasone:Species:Rabbit | Not classified based on availab <u>Components:</u> Polyethylene glycol stearate: | : | LD50 (Rat, female | e): 704 mg/kg |
| Not classified based on available information.Components:Polyethylene glycol stearate:Species:Result:Draize TestResult:No skin irritationGentamicin:Species:Result:Mild skin irritationbetamethasone:Species:Rabbit | Not classified based on availab <u>Components:</u> Polyethylene glycol stearate: | | | |
| Polyethylene glycol stearate: Species : Rabbit Method : Draize Test Result : No skin irritation Gentamicin: Species : Result : Mild skin irritation betamethasone: : Species Species : Rabbit | Polyethylene glycol stearate: | ole | information. | |
| Species : Rabbit Method : Draize Test Result : No skin irritation Gentamicin: | | | | |
| Method : Draize Test Result : No skin irritation Gentamicin: | | : | | |
| Result : No skin irritation Gentamicin: | | ÷ | | |
| Species : Rabbit Result : Mild skin irritation betamethasone: | | : | | |
| Species : Rabbit Result : Mild skin irritation betamethasone: : Species : Rabbit | Gentamicin: | | | |
| Result : Mild skin irritation betamethasone: : Rabbit | | | Rabbit | |
| Species : Rabbit | • | : | | |
| | betamethasone: | | | |
| Result : Mild skin irritation | | : | | |
| | Result | : | Mild skin irritation | |



| rsion | Revision Date: 2023/09/30 | | S Number: 1589-00021 | Date of last issue: 2023/04/04 Date of first issue: 2016/01/06 |
|----------------|--|-----------|--------------------------------|---|
| | | | | |
| Quart | | | | |
| Speci Resul | | : | Human Corrosive after | 4 hours or less of exposure |
| i (CSui | | • | | |
| | us eye damage/eye assified based on ava | | | |
| | ponents: | | | |
| Polye | thylene glycol stea | rate: | | |
| Speci | es | : | Rabbit | |
| Resul | | : | No eye irritation | า |
| Metho | bd | : | Draize Test | |
| Genta | amicin: | | | |
| Speci | | : | Rabbit | |
| Resul | t | : | Mild eye irritatio | วท |
| betan | nethasone: | | | |
| Speci | es | : | Rabbit | |
| Resul | | : | No eye irritation | ſ |
| Benza | alkonium chloride: | | | |
| Speci | | : | Rabbit | |
| Resul | | : | Irreversible effe | ects on the eye |
| Resp | iratory or skin sens | itisatio | n | |
| Skin | sensitisation | | | |
| Not cl | assified based on av | ailable i | nformation. | |
| - | iratory sensitisation | | | |
| | assified based on av | ailable i | nformation. | |
| | oonents: | | | |
| | ethylene glycol stear | rate: | . . | |
| Test 7 | | : | Open epicutane Skin contact | eous test |
| Expos Speci | sure routes es | | Guinea pig | |
| Resul | | : | negative | |
| Gont | amicin: | | | |
| Rema | | : | No data availat | ble |
| - | | | | |
| | nethasone: | | Denvel | |
| | sure routes | : | Dermal | |
| Speci Resul | | | Guinea pig Weak sensitize | r |
| | - | • | | |



| ersion 1 | Revision Date: 2023/09/30 | | S Number: 589-00021 | Date of last issue: 2023/04/04 Date of first issue: 2016/01/06 |
|-------------|--|------------|--|---|
| Test | sure routes es | : | Human repeat Skin contact Humans negative | insult patch test (HRIPT) |
| Not cl | cell mutagenicity assified based on ava | ailable ir | nformation. | |
| | oonents: | | | |
| | thylene glycol stear toxicity in vitro | : | Test Type: Bao Result: negativ | cterial reverse mutation assay (AMES) /e |
| | amicin: toxicity in vitro | | Test Type: In v Result: negativ | ritro mammalian cell gene mutation test re |
| | | | Test Type: Chi Result: equivo | romosome aberration test in vitro cal |
| Geno | toxicity in vivo | | cytogenetic as Species: Mous | e ute: Intravenous injection |
| betan | nethasone: | | | |
| | toxicity in vitro | | Test Type: Bao Result: negativ | cterial reverse mutation assay (AMES) |
| | | | Test Type: In v Result: negativ | ritro mammalian cell gene mutation test re |
| | | | Test Type: Chi Result: positive | romosome aberration test in vitro |
| Geno | toxicity in vivo | | Test Type: Ma cytogenetic as Species: Mous Application Ro Result: equivo | ute: Oral |
| | cell mutagenicity - | | Weight of evid cell mutagen. | ence does not support classification as a gern |

Benzalkonium chloride:



| | 2023/09/30 | | Number: 39-00021 | Date of last issue: 2023/04/04 Date of first issue: 2016/01/06 |
|---|--|--|--|--|
| | | | | |
| Genote | oxicity in vitro | | est Type: Ba esult: negati [,] | cterial reverse mutation assay (AMES) ve |
| | | M R | ethod: OECI esult: negati | vitro mammalian cell gene mutation test D Test Guideline 476 ve ed on data from similar materials |
| | | M R | ethod: OECI esult: negati | romosome aberration test in vitro D Test Guideline 473 ve ed on data from similar materials |
| Genote | oxicity in vivo | cy S A M | vtogenetic as pecies: Mous oplication Ro ethod: OECI esult: negati | se oute: Ingestion D Test Guideline 474 |
| Carcir | nogenicity | | | |
| | assified based on avai | lable info | ormation. | |
| <u>Comp</u> | onents: | | | |
| | | | | |
| Genta | micin: | | | |
| | micin: logenicity - Assess- | : N | o data availa | ble |
| Carcin ment | | : N | o data availa | ble |
| Carcin ment Benza Specie | ogenicity - Assess- Ilkonium chloride: es | : R | at | ble |
| Carcin ment Benza Specie Applica | ogenicity - Assess- Ilkonium chloride: es ation Route | : R : In | at gestion | ble |
| Carcin ment Benza Specie Applica Expos | nogenicity - Assess- Ilkonium chloride: es ation Route ure time | : R : In : 2 | at gestion Years | |
| Carcin ment Benza Specie Applica | aogenicity - Assess- alkonium chloride: es ation Route ure time d | : R : In : 2 : O | at gestion Years ECD Test G | |
| Carcin ment Benza Specie Applica Expos Metho | aogenicity - Assess- Ilkonium chloride: es ation Route ure time d | : R : In : 2 : O : ne | at gestion Years ECD Test G egative | |
| Carcin ment Benza Specie Applica Expos Metho Result Reman | nogenicity - Assess- alkonium chloride: es ation Route ure time d rks | : R : In : 2 : O : ne : B | at gestion Years ECD Test G egative ased on data | uideline 453 |
| Carcin ment Benza Specie Applica Expos Metho Result Remai Specie Applica | alkonium chloride: es ation Route ure time d rks es ation Route | : R : In : 2 : O : ne : B | at gestion Years ECD Test G egative | uideline 453 |
| Carcin ment Benza Specie Applica Expos Metho Result Remai Specie Applica Expos | alkonium chloride: es ation Route ure time d rks es ation Route ure time | : R : In : 2 : O : ne : B : B : S : S : S | at gestion Years ECD Test G egative ased on data ouse kin contact) weeks | uideline 453 |
| Carcin ment Benza Specie Applica Expos Metho Result Remai Specie Applica | alkonium chloride: es ation Route ure time d rks es ation Route ure time | : R : In : 2 : O : ne : B : B : S : S : S | at gestion Years ECD Test G egative ased on data ouse kin contact | uideline 453 |
| Carcin ment Benza Specie Applica Expos Metho Result Remai Specie Applica Expos | alkonium chloride: es ation Route ure time d rks es ation Route ure time | : R : In : 2 : O : ne : B : B : S : S : S : S : S : N : S : S : N : S : S : S : S : S : S : S : S : S : S | at gestion Years ECD Test G egative ased on data ouse kin contact) weeks | uideline 453 |
| Carcin ment Benza Specie Applica Expos Methor Result Reman Specie Applica Expos Result Specie Applica | alkonium chloride: es ation Route ure time d rks es ation Route ure time es ation Route | : R : In : 2 : O : ne : B : S : S : S : R : S | at gestion Years ECD Test G egative ased on data ouse kin contact) weeks egative abbit kin contact | uideline 453 |
| Carcin ment Benza Specie Applica Expos Metho Result Reman Specie Applica Expos Result Specie Applica | alkonium chloride: es ation Route ure time d rks es ation Route ure time es ation Route ure time es ation Route ure time | : R : In : 2 : O : ne : B : B : B : S : S : S : S : R : S : S : S : S : S : S : S : S : S : S | at gestion Years ECD Test G egative ased on data ouse kin contact 0 weeks egative abbit | uideline 453 |



| ersion .1 | Revision Date: 2023/09/30 | | 9S Number: 4589-00021 | Date of last issue: 2023/04/04 Date of first issue: 2016/01/06 |
|----------------|---------------------------------|---|--|---|
| <u>Com</u> r | oonents: | | | |
| Genta | amicin: | | | |
| | s on fertility | : | Species: Rat Fertility: NOA | vo-generation reproduction toxicity study EL: 20 mg/kg body weight gnificant adverse effects were reported |
| Effect ment | s on foetal develop- | : | Species: Rabl Developmenta | nbryo-foetal development bit al Toxicity: NOAEL: 3.6 mg/kg body weight nbryo-foetal toxicity |
| | | | Species: Rat Application Ro Developmenta | nbryo-foetal development oute: Intraperitoneal al Toxicity: LOAEL: 75 mg/kg body weight /o-foetal toxicity |
| | | | Species: Mou Application Ro Developmenta | nbryo-foetal development se oute: Intraperitoneal al Toxicity: LOAEL: 10 mg/kg body weight mortality, No malformations were observed. |
| | | | Species: Rat Application Ro Developmenta | nbryo-foetal development oute: Intraperitoneal al Toxicity: LOAEL: 50 mg/kg body weight mortality, No malformations were observed. |
| Repro sessn | oductive toxicity - As- nent | : | | ence of adverse effects on development from niological studies. |
| betan | nethasone: | | | |
| | s on foetal develop- | : | Developmenta | bit oute: Intramuscular al Toxicity: LOAEL: 0.05 mg/kg body weight oxicity, Malformations were observed. |
| | | | Developmenta | oute: Subcutaneous al Toxicity: LOAEL: 0.42 mg/kg body weight mations were observed. |
| | | | Developmenta | se oute: Intramuscular al Toxicity: LOAEL: 1 mg/kg body weight mations were observed. |
| Repro sessn | oductive toxicity - As- nent | : | Clear evidenc animal experi | e of adverse effects on development, based ments. |



| rsion | Revision Date: 2023/09/30 | SDS Number: 434589-00021 | Date of last issue: 2023/04/04 Date of first issue: 2016/01/06 |
|----------------|--|--|---|
| | | | |
| Benz | alkonium chloride: | | |
| | is on fertility | Species: Rat Application F Method: OE0 Result: nega | Route: Ingestion CD Test Guideline 416 |
| Effect ment | s on foetal develop- | Species: Ral Application F Method: OE0 Result: nega | Route: Ingestion CD Test Guideline 414 |
| | - single exposure | | |
| Not c | lassified based on ava | ilable information. | |
| Caus | - repeated exposure es damage to organs (gland) through prolong | Pituitary gland, Imn | nune system, muscle, thymus gland, Blood, Ad posure. |
| <u>Com</u> | oonents: | | |
| Genta | amicin: | | |
| | et Organs ssment | : Kidney, inne : Causes dam exposure. | r ear age to organs through prolonged or repeated |
| betar | nethasone: | | |
| Targe | et Organs | : Pituitary glar Adrenal glan | nd, Immune system, muscle, thymus gland, Blc d |
| Asses | ssment | 5 | age to organs through prolonged or repeated |
| Benz | alkonium chloride: | | |
| Asses | ssment | | nt health effects observed in animals at concen mg/kg bw or less. |
| Repe | ated dose toxicity | | |
| <u>Com</u> | oonents: | | |
| Genta | amicin: | | |
| Speci | | : Dog | |
| LOAE | | : 3 mg/kg | |
| | cation Route sure time | : Intramuscula : 12 Months | u |
| | et Organs | : Kidney | |

:

Kidney

Application Route Exposure time Target Organs



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|--|---|---|---|
| Symp Speci LOAE Applic Expos | toms es :L cation Route sure time t Organs | : Vomiting, Saliva : Monkey : 50 mg/kg : Subcutaneous : 3 Weeks : Kidney, inner ea : Monkey | ation |
| LÒAE Applic Expos | | : 6 mg/kg : Intramuscular : 3 Weeks : Blood, Kidney, i | inner ear, Liver |
| Expos | EL | : Rat : 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood | |
| Expos | EL | : Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney | |
| Speci LOAE Applic Expos | | : Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland, | Immune system, muscle |
| Expos | | : Rat : 0.05 % : Skin contact : 8 Weeks : thymus gland | |
| Expos | | : Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland | |
| Expos | | : Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus g | gland, Adrenal gland |



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| Spec NOAI Applie | | : | Rat >= 100 mg/kg Ingestion 12 Weeks | |
| - | ration toxicity lassified based on avai | ilable | information. | |
| Expe | rience with human ex | posi | ure | |
| Com | ponents: | | | |
| Genta Inges | amicin: tion | : | Target Organs: K Target Organs: ir Symptoms: Dizzi deafness | |
| | nethasone: | | | |
| Inhala Skin (| ation contact | : | Target Organs: A Symptoms: Redr | drenal gland ess, pruritis, Irritation |
| 12. ECOL | OGICAL INFORMATIC | ON | | |
| | | | | |
| | oxicity | | | |
| Com | ponents: | | | |
| - | ethylene glycol steara ity to fish | ite: : | LC50 (Leuciscus Exposure time: 9 Method: DIN 384 | |
| Toxic | ity to microorganisms | : | EC10 (Bacteria): Exposure time: 1 | |
| Gent | amicin: | | | |
| | ity to daphnia and othe tic invertebrates | er : | Exposure time: 4 | nagna (Water flea)): 86 mg/l 8 h est Guideline 202 |
| | | | LC50 (Americam Exposure time: 9 Method: US-EPA | |
| Toxic plants | ity to algae/aquatic s | : | Exposure time: 7 | chneriella subcapitata (green algae)): 10 μg/l 2 h est Guideline 201 |



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| | | | | |
| | | | NOEC (Pseudokin µg/l Exposure time: 72 Method: OECD Te | |
| | | | EC50 (Anabaena Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Anabaena Exposure time: 72 Method: OECD Te | |
| | actor (Acute aquatic tox- | : | 100 | |
| | actor (Chronic aquatic | : | 1 | |
| toxic Toxi | ity) city to microorganisms | : | EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD To | ation inhibition |
| beta | methasone: | | | |
| | city to daphnia and other atic invertebrates | : | EC50 (Americamy Exposure time: 96 | |
| Toxi plant | city to algae/aquatic ts | : | mg/l Exposure time: 72 Method: OECD To | |
| | | | mg/l Exposure time: 72 Method: OECD To | |
| Toxi icity) | city to fish (Chronic tox- | : | NOEC (Pimephale Exposure time: 32 Method: OECD Te | |
| | | | NOEC (Oryzias la Exposure time: 21 Method: OECD To | |
| aqua | city to daphnia and other atic invertebrates (Chron- kicity) | : | NOEC (Daphnia r Exposure time: 21 Method: OECD Te | |
| M-Fa toxic | actor (Chronic aquatic ity) | : | 1,000 | |



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| | | | | | |
| E | Benzal | konium chloride: | | | |
| ٢ | Toxicity | to fish | : | LC50 (Pimephales Exposure time: 96 | s promelas (fathead minnow)): 0.28 mg/l 5 h |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 0.0056 mg/l s h |
| | Toxicity plants | to algae/aquatic | : | ErC50 (Chlorella p Exposure time: 72 | oyrenoidosa (algae)): 0.09 mg/l ! h |
| | | or (Acute aquatic tox- | : | 100 | |
| ٦ | icity) Toxicity icity) | to fish (Chronic tox- | : | NOEC (Pimephale Exposure time: 34 | es promelas (fathead minnow)): 0.032 mg/l d |
| F | Persist | ence and degradabili | ty | | |
| <u>(</u> | Compo | onents: | | | |
| | - | nylene glycol stearate |): | | |
| E | Biodegr | adability | : | Result: Readily bio Biodegradation: > Exposure time: 10 Method: OECD Te | • 70 % |
| (| Gentan | nicin: | | | |
| E | Biodegr | adability | : | Result: rapidly deg Biodegradation: 1 Exposure time: 28 Method: OECD Te | 00 % 3 d |
| E | Benzall | konium chloride: | | | |
| E | Biodegr | adability | : | | odegradable. est Guideline 301D on data from similar materials |
| E | Bioacc | umulative potential | | | |
| <u>(</u> | Compo | nents: | | | |
| F | Gentan Partitior octanol | n coefficient: n- | : | log Pow: < -2 | |
| F | | e thasone: n coefficient: n- /water | : | log Pow: 2.11 | |
| _ | | konium chloride: umulation | : | Species: Lepomis | macrochirus (Bluegill sunfish) |



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| | | | | n factor (BCF): < 500 I on data from similar materials |
| | on coefficient: n- ol/water | : | log Pow: 1.692 Remarks: Calcu | lation |
| | l ity in soil Ita available | | | |
| | r adverse effects ata available | | | |
| 3. DISPO | SAL CONSIDERATION | ١S | | |
| Waste | osal methods e from residues aminated packaging | : | Dispose of in ac | of waste into sewer. cordance with local regulations. s should be taken to an approved waste ha |
| | | - | dling site for rec | ycling or disposal. specified: Dispose of as unused product. |
| UNR1 UN ni | national Regulations IDG umber er shipping name | : | UN 3082 ENVIRONMENT N.O.S. | ALLY HAZARDOUS SUBSTANCE, LIQUIE |
| Label | ng group | : | | enzalkonium chloride) |
| IATA - UN/IE Prope | | : | | hazardous substance, liquid, n.o.s. enzalkonium chloride) |
| Label Packi | ng group s ng instruction (cargo | : | 9 III Miscellaneous 964 | |
| ger ai | ft) ng instruction (passen- rcraft) onmentally hazardous | : | 964 yes | |
| IMDG UN ni | a -Code Jumber er shipping name | | UN 3082 | ALLY HAZARDOUS SUBSTANCE, LIQUIE |



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| | | | |

| | | (Gentamicin, Benzalkonium chloride) |
|------------------|---|-------------------------------------|
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |
| Marine pollutant | : | yes |

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

Not applicable for product as supplied.

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

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

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 System of Classification and Labelling of Chemicals.

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

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 |

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 |



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| | | | | | |
| | | | | | |
| IECSC | | : | not determined | | |
| 16. OTHER INFORMATION | | | | | |
| | Revision Date | | : | 2023/09/30 | |
| | 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 ID OEL | | : | | eshold Limit Values (TLV) ational Exposure Limits |
| | ACGIH ID OEL | | : | 8-hour, time-weig Long term exposu | |

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



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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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