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Oxytetracycline / Diclofenac Formulation

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1. PRODUCT AND COMPANY IDENTIFICATION

| Product name | : | Oxytetracycline / Diclofenac Formulation |
|------------------------------|-----|--|
| Manufacturer or supplier's d | eta | ils |
| Company | : | MSD |
| Address | : | Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207 |
| Telephone | : | +1-908-740-4000 |
| Emergency telephone number | : | +1-908-423-6000 |
| E-mail address | : | EHSDATASTEWARD@msd.com |
| Recommended use of the ch | em | ical and restrictions on use |
| Recommended use | : | Veterinary product |
| Restrictions on use | : | Not applicable |

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

| Skin corrosion/irritation | : | Category 3 |
|--|---|---|
| Serious eye damage/eye irri- tation | : | Category 2B |
| Skin sensitisation | : | Category 1 |
| Reproductive toxicity | : | Category 1A |
| Specific target organ toxicity - repeated exposure | : | Category 2 (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) |
| Short-term (acute) aquatic hazard | : | Category 1 |
| Long-term (chronic) aquatic hazard | : | Category 1 |

GHS label elements

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|-------------------|---------------------------------------|--|--|
| Haza | rd pictograms | | ! |
| Signa | al word | : Danger | • • |
| Hazard statements | | H317 May cau H320 Causes H360FD May c H373 May cau Blood, lympha repeated expo | damage fertility. May damage the unborn child ise damage to organs (Gastrointestinal tract, tic system, Liver, Prostate) through prolonged |
| Preca | autionary statements | P260 Do not b P264+P265 W touch eyes. P272 Contami the workplace. P273 Avoid re | lease to the environment. otective gloves/ protective clothing/ eye protec- |
| | | P302 + P352 P305 + P351 - for several mir easy to do. Co P318 F expos P333 + P317 P337 + P317 | eed or concerned, get medical advice. f skin irritation or rash occurs: Get medical help f eye irritation persists: Get medical help. Take off contaminated clothing and wash it befo |
| | | Storage: | |
| | | P405 Store loc | neu up. |
| | | Disposal: P501 Dispose disposal plant. | of contents/ container to an approved waste |
| | r hazards which do r known. | not result in classifica | ition |

Substance / Mixture

Components

: Mixture

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| Chemical name | CAS-No. | Concentration (% w/w) |
|---|------------|--------------------------|
| 2-Pyrrolidone | 616-45-5 | >= 50 - < 70 |
| oxytetracycline | 79-57-2 | >= 20 - < 25 |
| Magnesium oxide | 1309-48-4 | >= 1 - < 5 |
| Sodium [2-[(2,6- dichlorophenyl)amino]phenyl]acetate | 15307-79-6 | >= 1 - < 2.5 |
| Sodium hydroxymethanesulphinate | 6035-47-8 | >= 0.1 - < 1 |

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. |
| In case of skin contact | : | Get medical attention. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. |
| 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 | : | Causes mild skin irritation. May cause an allergic skin reaction. Causes eye irritation. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. |
| Protection of first-aiders | : | 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 |
|---|---|--|
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during fire- fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- | : | Carbon oxides Chlorine compounds |
| ucts | | Nitrogen oxides (NOx) |

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|-------------|---|--|---|---|---|--|
| | Specific ods | c extinguishing meth- | : | cumstances and t Use water spray to Remove undamag so. | 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 | |
| | Special protective equipment for firefighters | | : | Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. | | |
| 6. A | CCIDEN | ITAL RELEASE MEAS | SUF | RES | | |
| | tive equ | al precautions, protec- uipment and emer- procedures | : | | ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8). | |
| | Environ | nmental precautions | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment o barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. | | 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 | |
| | | ls and materials for ment and cleaning up | : | For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1 | absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In 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. H | | IG AND STORAGE | | | | |
| | Technic | cal measures | : | | measures under EXPOSURE SONAL PROTECTION section. | |
| | Local/T | otal ventilation | : | If sufficient ventila | tion is unavailable, use with local exhaust | |
| | Advice | on safe handling | ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposu sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. | | ist or vapours. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. | |

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|--|--|---|
| Conditions for sa Materials to avoi | environment afe storage : Keep in prop Store locked Keep tightly Store in acce | perly labelled containers. d up. closed. cordance with the particular national regulations. with the following product types: |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|--|----------------|--|--|----------|
| oxytetracycline | 79-57-2 | TWA | 500 µg/m3 (OEB 2) | Internal |
| | Further inform | ation: DSEN | | |
| | | Wipe limit | 100 µg/100 cm ² | Internal |
| Magnesium oxide | 1309-48-4 | TWA (Inhal- able particu- late matter) | 10 mg/m3 | ACGIH |
| Sodium [2-[(2,6- dichloro- phenyl)amino]phenyl]acetate | 15307-79-6 | TWA | 100 µg/m3 (OEB 2) | Internal |
| | Further inform | ation: Skin | | |

Components with workplace control parameters

| 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 Hand protection | : | Combined particulates and organic vapour type |
| Material | : | Chemical-resistant 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. |
| Skin and body protection | : | Work uniform or laboratory coat. |
| Hygiene measures | : | If exposure to chemical is likely during typical use, provide eye |

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| | place. When using do n Contaminated wo workplace. Wash contamina The effective ope engineering conta appropriate dego | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|---|---|------------------------|
| Colour | : | brown, Greenish yellow |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | -33 °C |
| Initial boiling point and boiling range | : | 100.5 °C |
| 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 | : | 1.15 - 1.19 (25 °C) |
| Density | : | No data available |
| Solubility(ies) Water solubility | : | soluble |
| Partition coefficient: n- | : | Not applicable |

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|----------------------------|---|---|---|
| Auto Decc Visco V | nol/water -ignition temperature omposition temperature osity iscosity, dynamic iscosity, kinematic osive properties | No data ava No data ava 50.3 - 50.7 r No data ava No data ava Not explosiv | ilable nPa.s (25 °C) ilable |
| Mole | izing properties cular weight cle size | : The substan : No data ava : Not applicab | |

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Product:

| Acute oral toxicity | : Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |
|-----------------------|--|
| Components: | |
| 2-Pyrrolidone: | |
| Acute oral toxicity | LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity |
| Acute dermal toxicity | : LD50 (Rabbit): > 2,000 mg/kg |

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| | | | | est Guideline 402 substance or mixture has no acute dermal |
| oxyte | tracycline: | | | |
| Acute | oral toxicity | : | LD50 (Rat): 4,800 | 0 mg/kg |
| | | | LD50 (Mouse): 2 Remarks: Eviden | 240 mg/kg ce of phototoxicity was observed |
| Acute | inhalation toxicity | : | Remarks: No dat | a available |
| Acute | dermal toxicity | : | Remarks: No dat | a available |
| | toxicity (other routes of istration) | : | LD50 (Rat): 4,840 Application Route | |
| | | | LD50 (Mouse): 3 Application Route | |
| Magn | esium oxide: | | | |
| Acute | oral toxicity | : | Assessment: The icity | 000 mg/kg Test Guideline 423 e substance or mixture has no acute oral tox- on data from similar materials |
| Acute | inhalation toxicity | : | | h |
| Sodiu | ım [2-[(2,6-dichlorophe | nvl |)amino]phenyl]ac | cetate: |
| | oral toxicity | | LD50 (Rat): 55 - 2 | |
| | | | LD50 (Mouse): 1 | 70 - 389 mg/kg |
| | toxicity (other routes of istration) | : | LD50 (Rat): 97 - Application Route | |
| | | | LD50 (Mouse): 92 Application Route | |
| Sodiu | Im hydroxymethanesu | lphi | nate: | |
| | oral toxicity | • | LD50 (Rat): > 5,0 Method: OECD T | 00 mg/kg Test Guideline 423 on data from similar materials |
| Acute | dermal toxicity | : | LD50 (Rat): > 2,0 | 000 mg/kg Test Guideline 402 |

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|---|--|--|---|
| | | Devede Deveder d | |
| | | Remarks: Based on d | ata from similar materials |
| | corrosion/irritation es mild skin irritation. | | |
| Comp | oonents: | | |
| 2-Pyr | rolidone: | | |
| Speci | | : Rabbit | |
| Metho | bd | : OECD Test Guideline | 404 |
| Resul | t | : No skin irritation | |
| oxyte | tracycline: | | |
| Rema | urks | : No data available | |
| Sodiu | ım [2-[(2,6-dichlorop | henyl)amino]phenyl]acetat | e: |
| Resul | t | : irritating | |
| Sodiu | ım hydroxymethane | sulphinate: | |
| Speci | | : Rat | |
| 0000 | | | |
| Resul | t | : No skin irritation | |
| Resul Rema | | : No skin irritation : Based on data from si | imilar materials |
| Rema | arks | : Based on data from si | imilar materials |
| Rema Serio | | : Based on data from si | imilar materials |
| Rema Serio Cause | ırks us eye damage/eye | : Based on data from si | imilar materials |
| Rema Serio Cause <u>Comp</u> | irks us eye damage/eye es eye irritation. | : Based on data from si | imilar materials |
| Rema Serio Cause <u>Comp</u> | urks us eye damage/eye es eye irritation. ponents: rolidone: | : Based on data from si | imilar materials |
| Rema Serio Cause <u>Comp</u> 2-Pyr | urks us eye damage/eye es eye irritation. ponents: rolidone: es | : Based on data from si | |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul | urks us eye damage/eye es eye irritation. ponents: rolidone: es | : Based on data from si rritation : Rabbit | |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul | urks us eye damage/eye es eye irritation. <u>ponents:</u> rolidone: es t t | : Based on data from si rritation : Rabbit | |
| Rema Serio Cause Comp 2-Pyr Speci Resul oxyte Rema | arks us eye damage/eye es eye irritation. <u>ponents:</u> rolidone: es t t es t es t es t | : Based on data from si rritation : Rabbit : Irritation to eyes, reve | |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul oxyte Rema Magn | arks us eye damage/eye es eye irritation. conents: rolidone: es t tracycline: arks esium oxide: | : Based on data from si rritation : Rabbit : Irritation to eyes, reve : No data available | |
| Rema Serio Cause Comp 2-Pyr Speci Resul oxyte Rema | arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es es t es es t es es t es es t es es es es es es es es es es | : Based on data from si rritation : Rabbit : Irritation to eyes, reve | rsing within 7 days |
| Rema Serio Cause Comp 2-Pyr Speci Resul oxyte Rema Magn Speci Metho Resul | arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es t es es interime: es od t | Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation | rsing within 7 days 405 |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul oxyte Rema Magn Speci Metho | arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es t es es interime: es od t | : Based on data from si rritation : Rabbit : Irritation to eyes, reve : No data available : Rabbit : OECD Test Guideline | rsing within 7 days |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema | arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es t es it es od it arks | Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation | rsing within 7 days 405 imilar materials |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema | arks us eye damage/eye es eye irritation. <u>ponents:</u> rolidone: es t es t es t es it es pod it urks um [2-[(2,6-dichlorop | Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si | rsing within 7 days 405 imilar materials |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema Sodiu Resul | arks us eye damage/eye es eye irritation. ponents: rolidone: es t es t es bd t arks um [2-[(2,6-dichlorop t | Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si | rsing within 7 days 405 imilar materials |
| Rema Serio Cause Comp 2-Pyr Speci Resul Rema Speci Metho Resul Rema Sodiu Resul | arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t arks esium oxide: es od t arks um [2-[(2,6-dichlorop t um hydroxymethane | Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si | rsing within 7 days 405 imilar materials |
| Rema Serio Cause <u>Comp</u> 2-Pyr Speci Resul Rema Speci Metho Resul Rema Sodiu Resul | arks us eye damage/eye es eye irritation. <u>conents:</u> rolidone: es t es t es es od t arks um [2-[(2,6-dichlorop t um hydroxymethane es | Based on data from si rritation Rabbit Irritation to eyes, reve No data available Rabbit OECD Test Guideline No eye irritation Based on data from si | 405 imilar materials e: |

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|-----------------|---|----------|-----------------------------------|---|
| Rema | ırks | : | Based on data | from similar materials |
| Deen | instant on altin sons | 410041 | | |
| - | iratory or skin sensi sensitisation | itisatio | n | |
| • | ause an allergic skin | reaction | on. | |
| • | iratory sensitisation assified based on ava | | information. | |
| Comp | ponents: | | | |
| 2-Pyr | rolidone: | | | |
| Test 7 | | : | | ode assay (LLNA) |
| Speci | sure routes es | : | Skin contact Mouse | |
| Metho | | : | OECD Test G | uideline 429 |
| Resul | • | : | negative | |
| Rema | irks | : | Based on data | from similar materials |
| oxyte | tracycline: | | | |
| Test T Resul | | : | Human repeat Sensitiser | insult patch test (HRIPT) |
| Magn | esium oxide: | | | |
| Test 7 | | : | Maximisation - | Test |
| Expos Speci | sure routes | : | Skin contact Guinea pig | |
| Metho | | ÷ | OECD Test G | uideline 406 |
| Resul | | : | negative | |
| Rema | ırks | : | Based on data | from similar materials |
| Sodiu | ım hydroxymethane | sulph | inate: | |
| Test 7 | | : | Maximisation - | Test |
| | sure routes | : | Skin contact | |
| Speci Metho | | : | Guinea pig OECD Test G | uideline 406 |
| Resul | | : | negative | |
| Rema | irks | : | | from similar materials |
| Germ | cell mutagenicity | | | |
| Not cl | assified based on available | ailable | information. | |
| <u>Comp</u> | oonents: | | | |
| 2-Pyr | rolidone: | | | |
| Geno | toxicity in vitro | : | Test Type: Bac Result: negativ | cterial reverse mutation assay (AMES ve |
| | | | | vitro mammalian cell gene mutation te D Test Guideline 476 ve |
| | | | 10/2 | 3 |

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|----------------|-------------------------------------|--|---|
| Geno | otoxicity in vivo | Test Type Method: (Result: ne | E Based on data from similar materials E: Chromosome aberration test in vitro DECD Test Guideline 473 Egative E: Mammalian erythrocyte micronucleus test (in vivo |
| Con | | cytogene Species: Applicatio | tic assay) Mouse on Route: Intraperitoneal injection DECD Test Guideline 474 |
| - | etracycline: otoxicity in vitro | Result: no | e: Mouse Lymphoma |
| | | Result: pe Test Type Test syst Result: ee | e: sister chromatid exchange assay em: Chinese hamster ovary cells quivocal e: Chromosomal aberration |
| Gend | otoxicity in vivo | Species: Cell type: Applicatio Result: e Test Type Species: | Bone marrow on Route: Oral quivocal e: in vivo assay Mouse on Route: Intraperitoneal injection |
| | n cell mutagenicity - ssment | : Weight of cell muta | evidence does not support classification as a germ gen. |
| - | nesium oxide: otoxicity in vitro | Method: (Result: n Remarks Test Type Method: (Result: n | Based on data from similar materials Chromosome aberration test in vitro DECD Test Guideline 473 |

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|-------|---|---|--|
| | | Method: C Result: ne | e: In vitro mammalian cell gene mutation test DECD Test Guideline 476 egative Based on data from similar materials |
| Sodiu | um [2-[(2,6-dichlorop | henyl)amino]ph | enyl]acetate: |
| Geno | toxicity in vitro | : Test Type Result: ne | e: Bacterial reverse mutation assay (AMES) egative |
| | | Test Type Result: ne | e: Mouse Lymphoma egative |
| Geno | toxicity in vivo | : Test Type Species: (Result: ne | |
| Sodiı | um hydroxymethane | sulphinate: | |
| Geno | toxicity in vitro | Method: C Result: ne | e: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 egative Based on data from similar materials |
| Geno | toxicity in vivo | : Test Type cytogenet Species: I Applicatio Method: C Result: po | e: Mammalian erythrocyte micronucleus test (in vivo ic assay) Mouse n Route: Intraperitoneal injection DECD Test Guideline 474 |
| | i cell mutagenicity - ssment | | esult(s) from in vivo mammalian somatic cell muta- |
| Not c | i nogenicity lassified based on ava ponents: | ailable informatior | ۱. |
| • | rolidone: | | |
| | cation Route sure time It | : Mouse : Ingestion : 18 monthe : negative : Based on | (s) data from similar materials |
| oxyte | etracycline: | | |
| Speci | | : Mouse | |
| | cation Route sure time | : Oral : 104 week | S |

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|-------------|--|---|------|--|--|
| | Species Applica Exposu Result Target Remark | tion Route ire time Organs | : | Rat Oral 103 weeks equivocal Adrenal gland, Pi The mechanism o mans. | tuitary gland or mode of action may not be relevant in hu- |
| | Carcino ment | ogenicity - Assess- | : | Weight of evidend cinogen | ce does not support classification as a car- |
| | Species | tion Route ire time | : | Mouse Ingestion 96 weeks negative Based on data fro | om similar materials |
| | Species Applica Exposu Result Species | tion Route re time s tion Route | enyl |)amino]phenyl]ac Rat Oral 2 Years negative Mouse Oral 2 Years negative | etate: |
| | - | luctive toxicity mage fertility. May dar onents: | mag | e the unborn child. | |
| | - | on fertility | : | Species: Rat Application Route Result: positive | generation reproduction toxicity study e: Ingestion on data from similar materials |
| | Effects ment | on foetal develop- | : | Test Type: Embry Species: Rat Application Route Result: positive | vo-foetal development e: Ingestion |
| | Reprod sessme | uctive toxicity - As- ent | : | ity, based on anir | f adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments. |

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|-----------------|--------------------------------|---|--|
| - | racycline: s on fertility | Species: Rat Application Route Fertility: NOAEL: Result: No effects | eneration reproduction toxicity study : Oral 18 mg/kg body weight on fertility, No effect on reproduction capac- adverse effects were reported |
| Effects | s on foetal develop- | Species: Rat Application Route Embryo-foetal toxi Result: Postimplan Test Type: Embry Species: Rat Application Route General Toxicity N | icity: LOAEL: 48 mg/kg body weight ntation loss., Skeletal malformations o-foetal development : Oral //aternal: LOAEL: 1,200 mg/kg body weight icity: NOAEL: 1,500 mg/kg body weight |
| | | Remarks: Materna Test Type: Embry Species: Mouse Application Route General Toxicity M Embryo-foetal toxi Result: No teratog Remarks: Materna | al toxicity observed. o-foetal development : Oral Aaternal: LOAEL: 1,325 mg/kg body weight icity: NOAEL: 2,100 mg/kg body weight jenic effects al toxicity observed. o-foetal development |
| | | Embryo-foetal toxi Result: Postimplan Test Type: Embry Species: Dog Application Route Embryo-foetal toxi Result: Skeletal an | icity: LOAEL: 41.5 mg/kg body weight ntation loss., No foetal abnormalities o-foetal development : Intramuscular icity: LOAEL: 20.75 mg/kg body weight nd visceral variations, Postimplantation loss. |
| Reproo sessm | ductive toxicity - As- ent | Positive evidence human epidemiolo | of adverse effects on development from ogical studies. |
| - | esium oxide: s on fertility | reproduction/deve Species: Rat Application Route Method: OECD Te Result: negative | |

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Oxytetracycline / Diclofenac Formulation

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| | | | | | |
| | Effects ment | on foetal develop- | : | reproduction/deve Species: Rat Application Route Method: OECD To Result: negative | |
| | Sodiur | n [2-[(2,6-dichlorophe | enyl |)amino]phenyl]ac | etate: |
| | Effects | on fertility | : | Test Type: Fertilit Species: Rat, mal Application Route Fertility: NOAEL: Result: No effects | e and female : Oral 4 mg/kg body weight |
| | Effects ment | on foetal develop- | : | Result: Embryo-fo Test Type: Develo Species: Rabbit Application Route Developmental To | : Oral oxicity: LOAEL: 1 mg/kg body weight oetal toxicity, No teratogenic effects opment :: Oral oxicity: LOAEL: 5 mg/kg body weight |
| | • | luctive toxicity - As- | : | · | betal toxicity, No teratogenic effects naging the unborn child. |
| | sessme | n hydroxymethanesu | Inh | inate [.] | |
| | | on fertility | : | Test Type: Combi reproduction/deve Species: Rat Application Route Method: OECD To Result: negative | |
| | Effects ment | on foetal develop- | : | Species: Rat Application Route Method: OECD To Result: positive | |
| | Reprod sessme | luctive toxicity - As- ent | : | Some evidence o animal experimen | f adverse effects on development, based on tts. |

STOT - single exposure

Not classified based on available information.

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STOT - repeated exposure

May cause damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure.

Components:

Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

| Target Organs | : | Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate |
|---------------|---|--|
| Assessment | : | Causes damage to organs through prolonged or repeated |
| | | exposure. |

Repeated dose toxicity

Components:

2-Pyrrolidone:

| 2-Pyrrolidone: | |
|---|--|
| Species NOAEL Application Route Exposure time Method | Rat 207 mg/kg Ingestion 3 Months OECD Test Guideline 408 |
| oxytetracycline: | |
| Species LOAEL Application Route Exposure time Target Organs Remarks | Rat 198 mg/kg Oral 13 Weeks Bone No significant adverse effects were reported |
| Species LOAEL Application Route Exposure time Target Organs Remarks | Mouse 7,990 mg/kg Oral 13 Weeks Bone No significant adverse effects were reported |
| Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks | Dog 125 mg/kg 250 mg/kg Oral 12 Months Testis Significant toxicity observed in testing |
| Species NOAEL LOAEL Application Route Exposure time Target Organs | Rat 40 mg/kg 100 mg/kg Intraperitoneal 14 Days Kidney |
| Magnesium oxide: | |

Magnesium oxide:

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| | | | | |
| Spec | | : | Rat | |
| NOA | | : | >= 1,000 mg/kg | |
| | ication Route | | Ingestion | |
| Meth | osure time | : | 28 Days OECD Test Guide | alina 407 |
| Rem | | : | | om similar materials |
| _ | | _ | | |
| | um [2-[(2,6-dichlorop | henyl | | etate: |
| Spec | | : | Rat | |
| LOA | | : | 0.25 mg/kg | |
| | ication Route | : | Oral | |
| | sure time | ÷ | 98 W | reat Diagod humahatia ayatam Liyar Draatata |
| Targ | et Organs | : | Gastrointestinal ti | act, Blood, lymphatic system, Liver, Prostate |
| Spec | | : | Dog | |
| LOA | | : | 1 mg/kg | |
| | ication Route | : | Oral | |
| • | osure time | : | 12 w | |
| Targ | et Organs | : | Blood | |
| Spec | cies | : | Baboon | |
| NOA | EL | : | 0.5 mg/kg | |
| LOA | | : | 5 mg/kg | |
| | ication Route | : | Oral | |
| | osure time | : | 52 w | |
| | et Organs | : | Gastrointestinal t | |
| Sym | ptoms | : | constipation, Diar | rhoea |
| Sodi | um hydroxymethane | sulph | inate: | |
| Spec | | | Rat | |
| NOA | | : | 600 mg/kg | |
| - | ication Route | | Ingestion | |
| | sure time | | 90 Days | |
| Meth | | | OECD Test Guid | eline 408 |
| Rem | arks | : | | om similar materials |
| , - | | | | |
| - | ration toxicity | - il a b l | : | |
| | classified based on ava | | | |
| Expe | erience with human e | xposi | ıre | |
| <u>Com</u> | ponents: | | | |
| oxyt | etracycline: | | | |
| Inge | stion | : | | ointestinal disturbance, tooth discoloration use birth defects. |
| Sodi | um [2-[(2,6-dichlorop | henyl |)amino]phenyl]ad | etate: |
| Inge | | : | Symptoms: Abdo | minal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties, |
| | | | | |

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12. ECOLOGICAL INFORMATION

Ecotoxicity

| Components: | | |
|---|---|--|
| 2-Pyrrolidone: Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): > 4,600 - 10,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h |
| | | EC10 (Desmodesmus subspicatus (green algae)): 22.2 mg/l Exposure time: 72 h |
| Toxicity to microorganisms | : | EC50: > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209 |
| oxytetracycline: | | |
| Toxicity to fish | : | LC50 (Oryzias latipes (Japanese medaka)): 110 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 621 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| | | EC50 (Daphnia magna (Water flea)): 669 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Anabaena): 0.032 mg/l Exposure time: 72 h |
| | | NOEC (Anabaena): 0.0031 mg/l Exposure time: 72 h |
| M-Factor (Acute aquatic tox- icity) | : | 10 |
| Toxicity to microorganisms | : | EC50: 17.9 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 |

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| | | | | NOEC: 0.2 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te | ation inhibition |
| | M-Facto toxicity) | or (Chronic aquatic | : | 10 | |
| | Magnes | sium oxide: | | | |
| | Toxicity | | : | Exposure time: 96 | s promelas (fathead minnow)): > 100 mg/l S h on data from similar materials |
| | | to daphnia and other invertebrates | : | Exposure time: 48 | agna (Water flea)): > 100 mg/l 3 h on data from similar materials |
| | Toxicity plants | to algae/aquatic | : | mg/l Exposure time: 72 Test substance: V Method: OECD Te | Vater Accommodated Fraction |
| | Toxicity | to microorganisms | : | EC50: > 100 mg/l Exposure time: 3 Method: OECD Te Remarks: Based o | |
| | Sodium | ı [2-[(2,6-dichlorophe | nvľ |)aminolphenyllac | etate. |
| | Toxicity | | : | | s promelas (fathead minnow)): 166.6 mg/l 5 h |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| | Toxicity plants | to algae/aquatic | : | EC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |
| | | | | NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD Te | |
| | Toxicity icity) | to fish (Chronic tox- | : | NOEC: 0.32 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te | ales promelas (fathead minnow) |

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| | | to daphnia and other invertebrates (Chron- ty) | : | NOEC: 10 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te | magna (Water flea) |
| | Sodium Toxicity | hydroxymethanesu to fish | lphi : | LC50 (Leuciscus i Exposure time: 96 | idus (Golden orfe)): > 10,000 mg/l S h on data from similar materials |
| | | to daphnia and other invertebrates | : | Exposure time: 48 Method: OECD Te | |
| | Toxicity plants | to algae/aquatic | : | Exposure time: 72 Method: OECD Te | |
| | Toxicity | to microorganisms | : | EC50: > 1,000 mg Exposure time: 4 Remarks: Based o | |
| | Toxicity icity) | to fish (Chronic tox- | : | NOEC: 13.5 mg/l Exposure time: 35 Species: Danio re Method: OECD Te Remarks: Based of | rio (zebra fish) |
| | | to daphnia and other invertebrates (Chron- ty) | : | Method: OECD Te | magna (Water flea) |
| | Persist | ence and degradabili | ity | | |
| | <u>Compo</u> | nents: | | | |
| | 2-Pyrro Biodegr | lidone: adability | : | Result: Readily bio Remarks: Based o | odegradable. on data from similar materials |
| | | hydroxymethanesu adability | lphi : | Result: Readily bio Biodegradation: 7 Exposure time: 28 Method: OECD Te | 77 % |

ger aircraft)

Environmentally hazardous : yes

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|----------------|--|---|--|--|--|--|--|
| Bioa | ccumulative potential | | | | | | |
| Com | ponents: | | | | | | |
| 2-Pv | rrolidone: | | | | | | |
| Partit | tion coefficient: n- nol/water | : log Pow: -0.71 Method: OECD Test Guideline 107 | | | | | |
| Sodi | Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate: | | | | | | |
| Partit | tion coefficient: n- nol/water | : log Pow: 4.51 | | | | | |
| | i lity in soil ata available | | | | | | |
| •• | r adverse effects ata available | | | | | | |
| 3. DISPO | OSAL CONSIDERATIO | S | | | | | |
| | | - | | | | | |
| Disp | osal methods | | | | | | |
| Wast | e from residues | : Do not dispose of waste into sewer. | | | | | |
| Conta | aminated packaging | Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. | | | | | |
| I. TRAN | SPORT INFORMATION | | | | | | |
| Inter | national Regulations | | | | | | |
| UNR | TDG | | | | | | |
| | umber er shipping name | : UN 3082 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline) | | | | | |
| Class | 3 | : 9 | | | | | |
| | ing group | : | | | | | |
| Labe Envir | is onmentally hazardous | : 9 : yes | | | | | |
| | -DGR | | | | | | |
| | | : UN 3082 | | | | | |
| Prope | er shipping name | : Environmentally hazardous substance, liquid, n.o.s. (oxytetracycline) | | | | | |
| Class | | : 9 | | | | | |
| Pack Labe | ing group Is | : III : Miscellaneous | | | | | |
| | ing instruction (cargo | : 964 | | | | | |
| Pack | ing instruction (passen- | : 964 | | | | | |

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| | | | |

| IMDG-Code | | |
|----------------------|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| | | (oxytetracycline) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |
| Marine pollutant | : | yes |

Transport in bulk according to IMO instruments

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

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 | | 30.09.2023 | | | |
|---|---|--|--|--|--|
| 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/ | | | |
| Date format | : | dd.mm.yyyy | | | |
| Full text of other abbreviations | | | | | |
| 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

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

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

IN / EN