

| Vers 7.0 | sion | Revision Date: 04.04.2023 | | DS Number: 1617-00018 | Date of last issue: 01.10.2022 Date of first issue: 12.05.2016 | | | | |
|-------------|---|--|-----------|--|---|--|--|--|--|
| SEC | SECTION 1: Identification of the substance/mixture and of the company/undertaking | | | | | | | | |
| 1.1 | 1.1 Product identifier Trade name : Oxytetracycline Formulation | | | | | | | | |
| 1.2 | Use of | nt identified uses of t the Sub- 'Mixture | he s : | substance or mixt Veterinary produc | ure and uses advised against at | | | | |
| | Recom on use | mended restrictions | : | Not applicable | | | | | |
| 1.3 | Details | of the supplier of the | sat | ety data sheet | | | | | |
| | Compa | ny | : | MSD 20 Spartan Road 1619 Spartan, So | outh Africa | | | | |
| | Teleph | one | : | +27119239300 | | | | | |
| | | address of person sible for the SDS | : | EHSDATASTEW | ARD@msd.com | | | | |
| 4.4.1 | Emorao | nov tolonkono numb | ~ * | | | | | | |

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 2

Eye irritation, Category 2 Skin sensitisation, Category 1 Reproductive toxicity, Category 1A Specific target organ toxicity - single exposure, Category 3 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H223: Flammable aerosol.

H229: Pressurised container: May burst if heated.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H360D: May damage the unborn child.

H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



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| Signa | l word | : Dange | r | |
| Haza | rd statements | : H223 H229 H317 H319 H336 H360D H410 | May cause Causes se May cause May dama | e aerosol. ed container: May burst if heated. e an allergic skin reaction. prious eye irritation. e drowsiness or dizziness. ge the unborn child. to aquatic life with long lasting effects. |
| Preca | autionary statements | P211 P251 P273 P280 | Obtain spe Keep away and other ig Do not spr Do not pie Avoid relea | ecial instructions before use. y from heat, hot surfaces, sparks, open gnition sources. No smoking. ay on an open flame or other ignition source. rce or burn, even after use. ase to the environment. ective gloves/ protective clothing/ eye protec- n. |
| | | Respo P391 Storag | Collect spi je: | |
| | | - | | otect from sunlight. Do not expose to tem- ng 50 °C/ 122 °F. |

Hazardous components which must be listed on the label:

Butane Propan-2-ol Isobutane oxytetracycline

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

May displace oxygen and cause rapid suffocation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. | Classification | Concentration |
|---------------|---------------------|--------------------|---------------|
| | EC-No. | | (% w/w) |
| | Index-No. | | |
| | Registration number | | |
| Butane | 106-97-8 | Flam. Gas 1A; | >= 20 - < 30 |
| | 203-448-7 | H220 | |
| | 601-004-00-0 | Press. | |
| | | Gas Liquefied gas; | |
| | | H280 | |
| | | STOT SE 3; H336 | |



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| Prop | an-2-ol | 67-63-0 200-661-7 603-117-00-0 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | >= 10 - < 20 |
| Isobu | utane | 75-28-5 200-857-2 601-004-00-0 | Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336 | >= 10 - < 20 |
| Prop | ane | 74-98-6 200-827-9 601-003-00-5 | Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336 | >= 10 - < 20 |
| oxyte | etracycline | 79-57-2 201-212-8 | Skin Sens. 1A; H317 Repr. 1A; H360D Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | >= 2,5 - < 10 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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. |
|----------------------------|---|--|
| 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). |
| If inhaled | : | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. |
| In case of skin contact | : | 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. |



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| In cas | se of eye contact | : | for at least 15 mi | nove contact lens, if worn. |
| lf swa | llowed | : | Get medical atte | NOT induce vomiting. ntion. roughly with water. |
| | mportant symptoms a | nd e | | - |
| Symp | toms | : | Gastrointestinal | disturbance |
| Risks | | : | Gas reduces oxy | gen available for breathing. |
| | | | Causes serious | siness or dizziness. |
| 4.3 Indica | tion of anv immediate | meo | dical attention an | d special treatment needed |
| Treat | • | : | | tically and supportively. |
| 5.1 Exting | I 5: Firefighting mean puishing media | | | |
| 5.1 Exting | | | es Water spray Alcohol-resistant Carbon dioxide (Dry chemical | |
| 5.1 Exting Suital | uishing media ble extinguishing media itable extinguishing | | Water spray Alcohol-resistant Carbon dioxide (| |
| 5.1 Exting Suital Unsu media | uishing media ole extinguishing media itable extinguishing | : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known. | CO2) |
| 5.1 Exting Suital Unsu media 5.2 Specia | uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire- | : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known. substance or m Flash back poss Vapours may for Exposure to com | CO2) ixture ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting |
| 5.1 Exting Suital Unsu media 5.2 Specia Speci fightir | uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire- | : : : : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known. e substance or m Flash back poss Vapours may for Exposure to com If the temperatur | CO2) ixture ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting |
| 5.1 Exting Suital Unsu media Speci fightir Haza ucts | uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire- | : : : : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known. substance or m Flash back poss Vapours may for Exposure to com If the temperatur due to the high v | CO2) ixture ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting |
| 5.1 Exting Suital Unsu media 5.2 Specia Speci fightir Haza ucts 5.3 Advice Speci | uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire- ng | : : : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known. Substance or m Flash back poss Vapours may for Exposure to com If the temperatur due to the high v Carbon oxides | CO2) ixture ible over considerable distance. m explosive mixtures with air. abustion products may be a hazard to health. e rises there is danger of the vessels bursting |
| 5.1 Exting Suital Unsu media 5.2 Specia Speci fightir Haza ucts 5.3 Advice Speci for fire | uishing media ble extinguishing media itable extinguishing a al hazards arising from fic hazards during fire- ng rdous combustion prod- e for firefighters al protective equipment | : : : | Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known. substance or m Flash back poss Vapours may for Exposure to com If the temperatur due to the high v Carbon oxides In the event of fin Use personal pro | CO2) ixture ible over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health. e rises there is danger of the vessels bursting apor pressure. re, wear self-contained breathing apparatus. |



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| | | | pray to cool unopened containers. damaged containers from fire area if it is safe to do rea. |
| SECTION | N 6: Accidental relea | se measures | |
| 6.1 Perso | nal precautions, prote | ctive equipment | and emergency procedures |
| Perso | onal precautions | Remove all Ventilate the Use person Follow safe | ersonnel to safe areas. sources of ignition. e area. al protective equipment. handling advice (see section 7) and personal pro- oment recommendations (see section 8). |
| 6.2 Enviro | onmental precautions | | |
| Envir | onmental precautions | Prevent furt Prevent spr barriers). Retain and | se to the environment. her leakage or spillage if safe to do so. eading over a wide area (e.g. by containment or oil dispose of contaminated wash water. rities should be advised if significant spillages ontained. |
| 6.3 Metho | ds and material for co | ontainment and c | leaning up |
| | ods for cleaning up | : Non-sparkir Soak up wit Suppress (H spray jet. For large sp ment to kee be pumped Clean up re bent. Local or nat posal of this employed ir mine which Sections 13 | ing tools should be used. In inert absorbent material. Inock down) gases/vapours/mists with a water ills, provide dyking or other appropriate contain- 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. |
| 6.4 Refere | ence to other sections | | |

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|-------------------------|---|--|
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation. |



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| | rice on safe handling giene measures | only in an a tion. Do not get of Avoid breat Do not swal Do not swal Do not get i Wash skin t Handle in a practice, ba sessment Keep conta Keep away other ignitio Take precat Take care to environmen Do not spra If exposure flushing sys place. When work clothin | llow. n eyes. horoughly after handling. ccordance with good industrial hygiene and safety sed on the results of the workplace exposure as- iner tightly closed. from heat, hot surfaces, sparks, open flames and n sources. No smoking. utionary measures against static discharges. o prevent spills, waste and minimize release to the |
| 7.2 Con | ditions for safe storage, | | - |
| Rec | quirements for storage as and containers | : Store locke ventilated p tional regula | d up. Keep tightly closed. Keep in a cool, well- lace. Store in accordance with the particular na- ations. Do not pierce or burn, even after use. Keep ct from sunlight. |
| Adv | vice on common storage | Self-reactiv Organic per Oxidizing a Flammable Pyrophoric Pyrophoric Self-heating | gents solids liquids solids g substances and mixtures and mixtures, which in contact with water, emit |
| 7 3 Sne | cific end use(s) | | |
| - | | · No data ava | ailable |

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|------------|---------|------------------|--------------------|-------|
| | | of exposure) | | |



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|-------------|----------|---------------------------|----------------|---------------------------------------|---|------------|
| | Butane | | 106-97-8 | OEL- RL STEL/C | 2.000 ppm | ZA OEL |
| | | | | nation: Occupationa nemical Agents | I Exposure Limits - Restricted | Limits For |
| | Propan | -2-ol | 67-63-0 | OEL-RL | 400 ppm | ZA OEL |
| | | | | nation: Occupationa nemical Agents | I Exposure Limits - Restricted | Limits For |
| | | | | OEL- RL STEL/C | 800 ppm | ZA OEL |
| | | | | nation: Occupationa nemical Agents | I Exposure Limits - Restricted | Limits For |
| | oxytetra | acycline | 79-57-2 | TWA | 500 µg/m3 (OEB 2) | Internal |
| | | - | Further inform | nation: DSEN | · · · · · · | |
| | | | | Wipe limit | 100 µg/100 cm ² | Internal |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|---------|--------------------|---------------------|--------|
| Propan-2-ol | 67-63-0 | Acetone: 40 mg/l | End of shift at end | ZA BEI |
| | | (Urine) | of workweek | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
|----------------|-----------|-----------------|-------------------------------|---------------------|
| Propan-2-ol | Workers | Inhalation | Long-term systemic effects | 500 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 888 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 89 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 319 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 26 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|----------------|----------------------------|----------------|
| Propan-2-ol | Fresh water | 140,9 mg/l |
| | Marine water | 140,9 mg/l |
| | Intermittent use/release | 140,9 mg/l |
| | Sewage treatment plant | 2251 mg/l |
| | Fresh water sediment | 552 mg/kg dry |
| | | weight (d.w.) |
| | Marine sediment | 552 mg/kg dry |
| | | weight (d.w.) |
| | Soil | 28 mg/kg dry |
| | | weight (d.w.) |
| | Oral (Secondary Poisoning) | 160 mg/kg food |

8.2 Exposure controls

Personal protective equipment

:

Hand protection

Remarks

Take note that the product is flammable, which may impact the selection of hand protection. : Skin should be washed after contact.

Skin and body protection

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| Respi | ratory protection | sur | e assessment | exhaust ventilation is not available or expo- demonstrates exposures outside the rec- elines, use respiratory protection. |
| Filt | ter type | | | eathing apparatus |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance ÷ Aerosol containing a liquefied gas Colour blue 2 Odour solvent-like 2 **Odour Threshold** No data available 1 No data available pН 2 Melting point/freezing point 1 No data available Initial boiling point and boiling : No data available range -80 °C Flash point 2 Evaporation rate 5 No data available Flammability (solid, gas) Flammable aerosol. 5 Upper explosion limit / Upper 9,5 %(V) 2 flammability limit Lower explosion limit / Lower : 1,8 %(V) flammability limit No data available Vapour pressure 5 Relative vapour density : No data available Relative density 2 No data available Density 0,92 g/cm³ 2 Solubility(ies) Water solubility No data available 1 Partition coefficient: n-: No data available octanol/water Auto-ignition temperature No data available 1 Decomposition temperature No data available 2 Viscosity Viscosity, kinematic 1 No data available Explosive properties 2 Not explosive Oxidizing properties The substance or mixture is not classified as oxidizing. 2



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| 9.2 Other | information | | | |
| Flamr | nability (liquids) | : | Not applicable | |
| Partic | le size | : | No data availabl | e |
| SECTION | I 10: Stability and re | eacti | vity | |
| 10.1 Reac Not cl | tivity assified as a reactivity | haza | rd. | |
| | nical stability e under normal conditio | ns. | | |
| 10.3 Poss | ibility of hazardous re | eactio | ons | |
| Hazar | dous reactions | : | If the temperature due to the high v | m explosive mixture with air. re rises there is danger of the vessels bursting |
| 10.4 Cond | litions to avoid | | | |
| Condi | tions to avoid | : | Heat, flames and | d sparks. |
| 10.5 Incor | npatible materials | | | |
| | ials to avoid | : | Oxidizing agents | 3 |
| | rdous decomposition | - | | |
| SECTION | l 11: Toxicological i | nfor | mation | |
| 11.1 Infor | mation on toxicologic | al ef | fects | |
| | nation on likely routes o | | Inhalation Skin contact Ingestion Eye contact | |
| | e toxicity assified based on avail | able | information. | |
| Comp | oonents: | | | |
| Butar | ne: | | | |
| Acute | inhalation toxicity | : | LC50 (Rat): 5700 Exposure time: 1 Test atmosphere Remarks: Based | 5 min |
| Propa | an-2-ol: | | | |
| Acute | oral toxicity | : | LD50 (Rat): > 5.0 | 00 mg/kg |



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| Acute | e inhalation toxicity | : | LC50 (Rat): > 25 Exposure time: 6 Test atmosphere: | h |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > \$ | 5.000 mg/kg |
| Isobu | utane: | | | |
| Acute | e inhalation toxicity | : | LC50 (Rat): 5700 Exposure time: 15 Test atmosphere: | 5 min |
| Prop | ane: | | | |
| Acute | e inhalation toxicity | : | LC50 (Rat): > 800 Exposure time: 15 Test atmosphere: | 5 min |
| oxyte | etracycline: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): 4.800 |) mg/kg |
| | | | LD50 (Mouse): 2.3 Remarks: Evidend | 240 mg/kg ce of phototoxicity was observed |
| Acute | e inhalation toxicity | : | Remarks: No data | a available |
| Acute | e dermal toxicity | : | Remarks: No data | a available |
| | e toxicity (other routes of nistration) | : | LD50 (Rat): 4.840 Application Route | |
| | | | LD50 (Mouse): 3.4 Application Route | |
| Not c | corrosion/irritation lassified based on availa ponents: | ble | information. | |
| | an-2-ol: | | | |
| Spec Resu | | : | Rabbit No skin irritation | |
| | etracycline: | | | |
| Rema | arks | : | No data available | |
| | ous eye damage/eye irri es serious eye irritation. | tati | on | |
| | ponents: | | | |
| Com | ponenta. | | | |



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| Resu | t | : | Irritation to eyes | , reversing within 21 days |
| oxyte Rema | e tracycline: arks | : | No data availabl | e |
| Resp | iratory or skin sensi | tisatio | 'n | |
| - | sensitisation cause an allergic skin | reactio | on. | |
| - | iratory sensitisation assified based on ava | | information | |
| | oonents: | | inionnation. | |
| Propa | an-2-ol: | | | |
| Test Expos Speci Metho Resul | sure routes es od | : | Buehler Test Skin contact Guinea pig OECD Test Guid negative | deline 406 |
| oxyte | tracycline: | | | |
| Test Resu | | : | Human repeat ir Sensitiser | nsult patch test (HRIPT) |
| Not cl <u>Comp</u> Butar | a cell mutagenicity assified based on ava <u>conents:</u> ne: toxicity in vitro | | | erial reverse mutation assay (AMES) |
| Geno | | | | Test Guideline 471 |
| | | | | mosome aberration test in vitro Test Guideline 473 |
| Geno | toxicity in vivo | : | cytogenetic assa Species: Rat Application Rout Method: OECD Result: negative | te: inhalation (gas) Test Guideline 474 |
| Propa | an-2-ol: | | | |
| Geno | toxicity in vitro | : | Test Type: Bactor Result: negative | erial reverse mutation assay (AMES) |
| II | | | Test Type: In vit | ro mammalian cell gene mutation test |
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| I | | Result: negat | ive |
| Geno | otoxicity in vivo | cytogenetic a Species: Mou | use oute: Intraperitoneal injection |
| Isob | utane: | | |
| Geno | otoxicity in vitro | Method: OEC Result: negat | hromosome aberration test in vitro CD Test Guideline 473 ive sed on data from similar materials |
| | | Result: negat | acterial reverse mutation assay (AMES) ive sed on data from similar materials |
| Genc | otoxicity in vivo | cytogenetic a Species: Rat Application R Method: OEC Result: negat | oute: inhalation (gas) D Test Guideline 474 |
| Prop | ane: | | |
| | otoxicity in vitro | Result: negat | acterial reverse mutation assay (AMES) ive sed on data from similar materials |
| Genc | otoxicity in vivo | cytogenetic a Species: Rat Application R Method: OEC Result: negat | oute: inhalation (gas) D Test Guideline 474 |
| | etracycline: | | |
| | otoxicity in vitro | : Test Type: M Result: negat | icrobial mutagenesis assay (Ames test) ive |
| | | | ouse Lymphoma ivation: Metabolic activation ve |
| | | | ster chromatid exchange assay Chinese hamster ovary cells ocal |
| | | Test Type: C Result: negat | hromosomal aberration ive |
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| Ger | notoxicity in vivo | : | Test Type: Micron Species: Mouse Cell type: Bone m Application Route Result: equivocal | arrow |
| | | | Test Type: in vivo Species: Mouse Application Route Result: negative | assay : Intraperitoneal injection |
| | m cell mutagenicity- As- sment | : | Weight of evidenc cell mutagen. | e does not support classification as a germ |
| | cinogenicity classified based on availa | ble | information. | |
| <u>Cor</u> | nponents: | | | |
| Spe App | | : | Rat inhalation (vapour 104 weeks OECD Test Guide negative | |
| oxy | tetracycline: | | | |
| Spe App | cies lication Route osure time | :: | Mouse Oral 104 weeks negative | |
| Exp Res Tar | lication Route osure time | | Rat Oral 103 weeks equivocal Adrenal gland, Pit The mechanism o mans. | uitary gland r mode of action may not be relevant in hu- |
| Car mer | cinogenicity - Assess- nt | : | Weight of evidenc cinogen | e does not support classification as a car- |
| - | productive toxicity / damage the unborn child | | | |
| Cor | nponents: | | | |
| | ane: | | | |
| Effe | cts on fertility | : | | ned repeated dose toxicity study with the elopmental toxicity screening test : inhalation (gas) |



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| | | | Method: OECI Result: negativ | D Test Guideline 422 /e |
| Effect ment | s on foetal develop- | : | reproduction/c Species: Rat Application Rc | mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e |
| Prona | an-2-ol: | | | |
| | s on fertility | : | Test Type: Tw Species: Rat Application Rc Result: negativ | |
| Effect ment | s on foetal develop- | : | Test Type: Em Species: Rat Application Ro Result: negativ | |
| Isobu | itane: | | | |
| | s on fertility | : | reproduction/c Species: Rat Application Rc | mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e |
| Effect ment | s on foetal develop- | : | reproduction/c Species: Rat Application Ro | mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 |
| Propa | ano. | | | |
| | s on fertility | : | reproduction/c Species: Rat Application Rc | mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e |
| Effect ment | s on foetal develop- | : | reproduction/c Species: Rat Application Rc | mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) D Test Guideline 422 /e |

oxytetracycline:



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| Effect | s on fertility | : | Species: Rat Application Route Fertility: NOAEL: Result: No effects | eneration reproduction toxicity study e: Oral 18 mg/kg body weight s on fertility, No effect on reproduction capac- adverse effects were reported |
| Effect ment | s on foetal develop- | : | Species: Rat Application Route Embryo-foetal tox | vo-foetal development e: Oral kicity: LOAEL: 48 mg/kg body weight intation loss., Skeletal malformations |
| | | | Species: Rat Application Route General Toxicity Embryo-foetal tox Result: No terator | Maternal: LOAEL: 1.200 mg/kg body weight kicity: NOAEL: 1.500 mg/kg body weight |
| | | | Species: Mouse Application Route General Toxicity Embryo-foetal tox Result: No terator | Maternal: LOAEL: 1.325 mg/kg body weight kicity: NOAEL: 2.100 mg/kg body weight |
| | | | Species: Rabbit Application Route Embryo-foetal tox | /o-foetal development e: Intramuscular kicity: LOAEL: 41,5 mg/kg body weight intation loss., No foetal abnormalities |
| | | | Species: Dog Application Route Embryo-foetal tox | vo-foetal development e: Intramuscular kicity: LOAEL: 20,75 mg/kg body weight and visceral variations, Postimplantation loss. |
| Repro sessn | ductive toxicity - As- nent | : | Positive evidence human epidemiol | of adverse effects on development from ogical studies. |
| | - single exposure ause drowsiness or diz | zzine | ess. | |
| Comp | oonents: | | | |
| Butar | - | | | |
| Asses Rema | | : | | iness or dizziness. om similar materials |



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|----------------|------------------------------|------------------------------------|---|
| Propa | an-2-ol: | | |
| Asses | ssment | : May cause dro | owsiness or dizziness. |
| lsobu | itane: | | |
| Asses | ssment | : May cause dr | owsiness or dizziness. |
| Propa | | | |
| Asses | ssment | : May cause dr | owsiness or dizziness. |
| | - repeated exposur | | |
| | assified based on ava | ailable information. | |
| - | ated dose toxicity | | |
| <u>Comp</u> | oonents: | | |
| Butar | | | |
| Speci NOAE | | : Rat : >= 9000 ppm | |
| | cation Route | : inhalation (ga | s) |
| | sure time | : 6 Weeks | |
| Metho | od | : OECD Test G | uideline 422 |
| Propa | an-2-ol: | | |
| Speci | | : Rat | |
| NOAE | | : 12,5 mg/l | |
| | cation Route | : inhalation (va : 104 Weeks | pour) |
| | | . TO4 Weeks | |
| lsobu | | | |
| Speci | | : Rat | |
| NOAE | cation Route | : >= 9000 ppm : inhalation (gas | s) |
| Expos | sure time | : 6 Weeks | 5) |
| Metho | | : OECD Test G | uideline 422 |
| Propa | ane: | | |
| Speci | | : Rat | |
| NOAE | EL | : 7,214 mg/l | |
| | cation Route | : inhalation (gas | s) |
| Metho | sure time od | : 6 Weeks : OECD Test G | uideline 422 |
| ovuto | tracvalina | | |
| Speci | tracycline: | : Rat | |
| LOAE | | : 198 mg/kg | |
| Applic | cation Route | : Oral | |
| Expos | sure time t Organs | : 13 Weeks | |
| Targe | t Organs | : Bone | advaraa offacta wara maranta ' |
| Rema | IIKS | : INO SIGNIFICANT | adverse effects were reported |
| | | 16 / 2 | 23 |



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| Expos | L ation Route sure time t Organs | : | Mouse 7.990 mg/kg Oral 13 Weeks Bone No significant adv | erse effects were reported |
| Expos | L L cation Route sure time t Organs | | Dog 125 mg/kg 250 mg/kg Oral 12 Months Testis Significant toxicity | observed in testing |
| Expos | EL | | Rat 40 mg/kg 100 mg/kg Intraperitoneal 14 Days Kidney | |
| Not cl Exper | ation toxicity assified based on availa rience with human exp ponents: | | | |
| • | tracycline: ion | : | Symptoms: Gastro | pintestinal disturbance, tooth discoloration |
| Ingest | ion | : | Remarks: May ca | |
| SECTION | ion 12: Ecological infor | : ma | Remarks: May ca | |
| SECTION 12.1 Toxic | ion 12: Ecological infor | : ma | Remarks: May ca | |
| Ingest SECTION 12.1 Toxic <u>Comp</u> Propa | ion 12: Ecological infor | : ma | Remarks: May ca | use birth defects. s promelas (fathead minnow)): 9.640 mg/l |
| Ingest SECTION 12.1 Toxic Comp Propa Toxici Toxici | ion 12: Ecological infor ity ponents: in-2-ol: ty to fish | : ma | Remarks: May ca tion LC50 (Pimephale Exposure time: 96 | use birth defects. s promelas (fathead minnow)): 9.640 mg/l s h agna (Water flea)): > 10.000 mg/l |
| Ingest SECTION 12.1 Toxic Comp Propa Toxici aquati | ion 12: Ecological infor ity ponents: in-2-ol: ty to fish ty to daphnia and other | : | Remarks: May ca ttion LC50 (Pimephale Exposure time: 96 EC50 (Daphnia m Exposure time: 24 | s promelas (fathead minnow)): 9.640 mg/l 5 h agna (Water flea)): > 10.000 mg/l I h nas putida): > 1.050 mg/l |
| Ingest SECTION 12.1 Toxic Comp Propa Toxici aquati Toxici aquati | ion 12: Ecological infor ity ponents: an-2-ol: ty to fish ty to daphnia and other ic invertebrates | : | Remarks: May ca tion LC50 (Pimephale Exposure time: 96 EC50 (Daphnia m Exposure time: 24 EC50 (Pseudomo Exposure time: 16 | s promelas (fathead minnow)): 9.640 mg/l 5 h agna (Water flea)): > 10.000 mg/l I h nas putida): > 1.050 mg/l |

SAFETY DATA SHEET



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| Toxid aqua | city to daphnia and other tic invertebrates | : | Exposure time: 48 Method: OECD T | est Guideline 202 nagna (Water flea)): 669 mg/l 3 h |
| Toxic plant | city to algae/aquatic s | : | EC50 (Anabaena Exposure time: 72 NOEC (Anabaena Exposure time: 72 | 2 h a): 0,0031 mg/l |
| M-Fa icity) | | : | 10 | |
| Τοχία | city to microorganisms | : | EC50 : 17,9 mg/l Exposure time: 3 Test Type: Respir Method: OECD T | ration inhibition |
| | | | NOEC : 0,2 mg/l Exposure time: 3 Test Type: Respir Method: OECD T | ration inhibition |
| | M-Factor (Chronic aquatic toxicity) | | 10 | |
| 12.2 Pers | sistence and degradabil | ity | | |
| <u>Com</u> | ponents: | | | |
| Buta Biode | n e: egradability | : | Result: Readily bi Remarks: Based | odegradable. on data from similar materials |
| | oan-2-ol: | | | |
| | egradability | • | Result: rapidly de | |
| BOD | /COD | : | BOD: 1.19 (BOD5 COD: 2.23 BOD/COD: 53 % | 5) |
| | utane: egradability | : | Result: Readily bi Remarks: Based | odegradable. on data from similar materials |
| Prop Biode | bane: egradability | : | Result: Readily bi | odegradable. |



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| I | | Remarks: Basec | on data from similar materials |
| 12.3 Bioad | ccumulative potential | | |
| Com | oonents: | | |
| Butar | ne: | | |
| | on coefficient: n- ol/water | : log Pow: 2,89 | |
| Propa | an-2-ol: | | |
| | on coefficient: n- ol/water | : log Pow: 0,05 | |
| Isobu | | | |
| | on coefficient: n- ol/water | : log Pow: 2,8 | |
| Propa | | | |
| Partiti octan | on coefficient: n- ol/water | : log Pow: 2,36 | |
| 12.4 Mobi | - | | |
| | ita available | | |
| 12.5 Resu | Its of PBT and vPvB a | ssessment | |
| Produ | | | |
| Asses | ssment | to be either pers | nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of |
| 12.6 Othe | r adverse effects | | |
| Produ | uct: | | |
| | crine disrupting poten- | ered to have end REACH Article 5 | hixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher. |
| SECTION | I 13: Disposal consi | derations | |
| | | | |
| | e treatment methods | | |
| Produ | ict aminated packaging | According to the are not product s Waste codes she discussion with t Do not dispose of | cordance with local regulations. European Waste Catalogue, Waste Codes specific, but application specific. buld be assigned by the user, preferably in he waste disposal authorities. of waste into sewer. erosol cans are sprayed completely empty |

Empty containers should be taken to an approved waste han-

(including propellant)



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| | | | Do not pressurize pose such contair of ignition. They n | cling or disposal. retain residue and can be dangerous. e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. becified: Dispose of as unused product. | | |
| SECTION | I 14: Transport inform | nat | ion | | | |
| 14.1 UN n | umber | | | | | |
| ADN | | : | UN 1950 | | | |
| ADR | | : | UN 1950 | | | |
| RID | | : | UN 1950 | | | |
| IMDG | i | : | UN 1950 | | | |
| ΙΑΤΑ | | : | UN 1950 | | | |
| 14.2 UN p | roper shipping name | | | | | |
| ADN | | : | AEROSOLS | | | |
| ADR | | : | AEROSOLS | | | |
| RID | | : | : AEROSOLS | | | |
| IMDG | i | : | : AEROSOLS | | | |
| II | | | (oxytetracycline) | | | |
| ΙΑΤΑ | | : | Aerosols, flamma | ble | | |
| 14.3 Trans | sport hazard class(es) | | | | | |
| ADN | | : | 2 | | | |
| ADR | | : | 2 | | | |
| RID | | : | 2 | | | |
| IMDG | i | : | 2.1 | | | |
| ΙΑΤΑ | _ | : | 2.1 | | | |
| 14.4 Pack | ing group | | | | | |
| | ng group ification Code s | : | Not assigned by r 5F 2.1 | egulation | | |
| Class Label | ng group ification Code s el restriction code | : | Not assigned by r 5F 2.1 (D) | egulation | | |
| RID Packi Class | ng group ification Code rd Identification Number | : | Not assigned by r 5F 23 2.1 | egulation | | |



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| Lab | king group | : : : | Not assigned by 1 2.1 F-D, S-U | regulation |
| Pac airci Pac | king instruction (LQ) king group | : | 203 Y203 Not assigned by r Flammable Gas | regulation |
| Pac ger Pac | A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group els | : | 203 Y203 Not assigned by r Flammable Gas | regulation |
| 14.5 Env | vironmental hazards | | | |
| | ironmentally hazardous | : | yes | |
| ADI Env | R ironmentally hazardous | : | yes | |
| RID Env | ironmentally hazardous | : | yes | |
| IMD Mar | G ine pollutant | : | yes | |
| 14.6 Spe | ecial precautions for use | er | | |

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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

| Remarks | : | Not applicable for product as supplied. |
|---------|---|---|
|---------|---|---|

SECTION 15: Regulatory information

15.1 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 |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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Oxytetracycline Formulation

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|--|--|--|--|--|--|
| SECTION | N 16: Other informat | ion | | | |
| Othe | r information | : | | nges have been made to the previous version the body of this document by two vertical | |
| Full t | ext of H-Statements | | | | |
| H220 | | | Extremely flamma | able das | |
| H225 | | | 2 | liquid and vapour. | |
| H280 | | | | ler pressure; may explode if heated. | |
| H317 | | : | | ergic skin reaction. | |
| H319 | | : | Causes serious e | | |
| H336 | 5 | : | May cause drows | iness or dizziness. | |
| H360 | D | : | May damage the | | |
| H400 | | : | Very toxic to aqua | | |
| H410 | | : | Very toxic to aqua | atic life with long lasting effects. | |
| Full t | ext of other abbreviat | ions | | | |
| Aqua | tic Acute | : | Short-term (acute | e) aquatic hazard | |
| Aqua | tic Chronic | : | | ic) aquatic hazard | |
| Eye I | | : | Eye irritation | | |
| | . Gas | : | Flammable gases | | |
| Flam | • | : | Flammable liquid | | |
| | s. Gas | | Gases under pres | | |
| Repr | | : | Reproductive toxi | | |
| | Sens. | ÷ | Skin sensitisation | | |
| STO ZA B | | : | | gan toxicity - single exposure Regulations for Hazardous Chemical | |
| ZA D | | • | | I Exposure Indices | |
| ZA O | FI | | | Regulations for Hazardous Chemical | |
| 240 | | • | | onal Exposure Limits | |
| 7A () | EL / OEL-RL | | | oosure Limit Restricted limit - 8- hour expo- | |
| | | • | sure or equivalen | | |
| ZA O | EL / OEL- RL STEL/C | : | Occupational Exp | oosure Limit Restricted limit - Short term oc- ure limits / ceiling limits | |
| Wate Road ing o tion (of the Europ asso cy So socia borat Trans | rways; ADR - Agreem l; AIIC - Australian Inve f Materials; bw - Body v EC) No 1272/2008; CM e German Institute for S bean Chemicals Agenc ciated with x% response chedule; ENCS - Existin ted with x% growth ration ory Practice; IARC - In sport Association; IBC - | ent o ntory weigh IR - 1 Stanc y; EC e; EL ng an te res terna Inter in Bu | concerning the Int of Industrial Chem nt; CLP - Classifica Carcinogen, Mutag lardisation; DSL - C-Number - Europe x - Loading rate as d New Chemical S sponse; GHS - GI tional Agency for rnational Code for | tional Carriage of Dangerous Goods by Inland ernational Carriage of Dangerous Goods by nicals; ASTM - American Society for the Test- ation Labelling Packaging Regulation; Regula- gen or Reproductive Toxicant; DIN - Standard Domestic Substances List (Canada); ECHA - ean Community number; ECx - Concentration ssociated with x% response; EmS - Emergen- Substances (Japan); ErCx - Concentration as- obally Harmonized System; GLP - Good La- Research on Cancer; IATA - International Air the Construction and Equipment of Ships car- ximal inhibitory concentration; ICAO - Interna- | |

rying 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;



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NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

| Sources of key data used to | : | Internal technical data, data from raw material SDSs, OECD |
|----------------------------------|---|--|
| compile the Safety Data Sheet | | eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |

Classification procedure:

Classification of the mixture:

| Aerosol 2 | H223, H229 | Based on product data or assessment |
|-------------------|------------|-------------------------------------|
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 1A | H360D | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

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

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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