

or breathing

Sulfadiazine / Trimethoprim Solid Formulation

| Version 5.1 | Revision Date: 30.09.2023 | SD3 173 | S Number: 97637-00019 | Date of last issue: 04.04.2023 Date of first issue: 08.06.2017 |
|----------------|------------------------------------|------------|-------------------------------------|---|
| | | | | |
| SECTIC Pro | ON 1: IDENTIFICATION | : | Sulfadiazine / Tri | methoprim Solid Formulation |
| Ма | nufacturer or supplier's d | etai | ls | |
| Co | mpany | : | MSD | |
| Ad | dress | : | 91-105 Harpin St Bendigo 3550, V | treet /ictoria Austrailia |
| Tel | ephone | : | 1 800 033 461 | |
| Err | ergency telephone number | : | Poisons Informat | ion Centre: Phone 13 11 26 |
| E-r | nail address | : | EHSDATASTEW | /ARD@msd.com |
| Re | commended use of the ch | emi | ical and restriction | ons on use |
| Re Re | commended use strictions on use | : | Veterinary produ Not applicable | ct |
| | | | | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification | | |
|---|---|--|
| Skin corrosion/irritation | : | Category 2 |
| Serious eye damage/eye irri- tation | : | Category 2B |
| Respiratory sensitisation | : | Category 1 |
| Reproductive toxicity | : | Category 2 |
| Specific target organ toxicity - single exposure | : | Category 3 |
| Specific target organ toxicity - repeated exposure | : | Category 2 (Bone marrow) |
| GHS label elements | | |
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H315 + H320 Causes skin and eye irritation. H334 May cause allergy or asthma symptoms |
| | | |



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| | | difficulties if inl H335 May cau H361d Suspec H373 May cau prolonged or re | naled. se respiratory irritation. ted of damaging the unborn child. se damage to organs (Bone marrow) through epeated exposure. |
| Preca | uutionary statements | Prevention: P201 Obtain s P202 Do not h and understoo P260 Do not b P264 Wash sk P271 Use only P280 Wear pro tion/ face prote P284 Wear res | pecial instructions before use. andle until all safety precautions have been read d. reathe dust. in thoroughly after handling. outdoors or in a well-ventilated area. btective gloves/ protective clothing/ eye protec- ection. spiratory protection. |
| | | Response: P302 + P352 I P304 + P340 + and keep comid doctor if you fee P305 + P351 + for several mine easy to do. Co P308 + P313 I attention. P332 + P313 I tion. P337 + P313 I tention. P342 + P311 I POISON CENT | F ON SKIN: Wash with plenty of water. - P312 IF INHALED: Remove person to fresh air fortable for breathing. Call a POISON CENTER/ el unwell. - P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ntinue rinsing. F exposed or concerned: Get medical advice/ f skin irritation occurs: Get medical advice/ atten f eye irritation persists: Get medical advice/ at- f experiencing respiratory symptoms: Call a TER/ doctor. |
| | | Storage: P405 Store loc Disposal: P501 Dispose disposal plant. | ked up. of contents/ container to an approved waste |
| Othe May f | r hazards which do n orm explosive dust-air | ot result in classifica mixture during proces | t ion ssing, handling or other means. |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|-------------------|----------|-----------------------|
| Calcium carbonate | 471-34-1 | 60 |
| sulfadiazine | 68-35-9 | 33.34 |



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| Trime | thoprim | | | 738-70-5 | | 6.66 | |
| CTION | 4. FIRST AID MEASUF | RES | | | | | |
| Gene | ral advice | : | In the case of a vice immediate When symptom advice. | lccident or if y ly. Is persist or in | ou feel un all cases | well, seek medical ad- of doubt seek medical | |
| lf inha | aled | : | If inhaled, remo If not breathing If breathing is o Get medical att | ove to fresh air , give artificial lifficult, give ox ention | respiratio kygen. | n. | |
| In cas | se of skin contact | : | In case of conta for at least 15 r and shoes. Get medical att Wash clothing I Thoroughly clea | ention. before reuse. | ely flush sl removing re reuse | kin with plenty of water contaminated clothing | |
| In case of eye contact | | | In case of conta for at least 15 r If easy to do, re Get medical att | act, immediate ninutes. move contact ention | ely flush e | ves with plenty of water orn. | |
| lf swa | allowed | : | If swallowed, D Get medical att Rinse mouth th | O NOT induce ention. oroughly with | e vomiting water. | | |
| Most and e delay | important symptoms iffects, both acute and ed | causes skin and eye irritation. causes skin and eye irritation. May cause allergy or asthma symptoms or breathing diffities if inhaled. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or reperexposure. Excessive exposure may aggravate preexisting asthma a other respiratory disorders (e.g. emphysema, bronchitis, time of surgers dynamics) | | | | s or breathing difficul- ld. prolonged or repeated eexisting asthma and sema, bronchitis, reac- | |
| Prote | ction of first-aiders | : | First Aid respor and use the rec when the poten | nders should p commended p itial for exposi | pay attenti ersonal pr ure exists | on to self-protection, otective equipment (see section 8). | |
| Notes | s to physician | : | Treat symptom | atically and su | pportively | · | |
| CTION | 5. FIREFIGHTING MEA | ASUF | RES | | | | |
| Suital | ble extinguishing media | : | Water spray | attaam | | | |

| | | Alconol-resistant loan |
|---|---|---|
| | | Carbon dioxide (CO2) |
| | | Dry chemical |
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during fire- fighting | : | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |



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| | | | | | | | |
| | | | | Exposure to comb | oustion products may be a hazard to health. | | |
| | Hazard ucts | ous combustion prod- | : | Carbon oxides Metal oxides | | | |
| | Specific ods | extinguishing meth- | : | Use extinguishing 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 for firefi Hazche | protective equipment ghters m Code | : | Evacuate area. In the event of fire, wear self-contained breathing ap Use personal protective equipment. 2Z | | | |
| SEC | TION 6 | ON 6. ACCIDENTAL RELEASE MEASURES | | | | | |
| | Person tive equ gency p | al precautions, protec- upment and emer- procedures | : | Use personal prot Follow safe handli tective equipment | ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8). | | |
| | Enviror | ronmental precautions : | | Avoid release to the Prevent further lease Retain and dispose Local authorities se cannot be contain | ne environment. akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages ed. | | |
| | Method | s and materials for ment and cleaning up | : | Surround spill with over the area to m Add excess liquid Soak up with inert Avoid dispersal of with compressed a Dust deposits sho es, as these may leased into the atr Clean up remainin bent. Local or national m posal of this mate employed in the c mine which regula Sections 13 and 1 certain local or na | a absorbents and place a damp covering inimise entry of the material into the air. to allow the material to enter into solution. absorbent material. dust in the air (i.e., clearing dust surfaces air). uld not be allowed to accumulate on surfac- form an explosive mixture if they are re- nosphere in sufficient concentration. In materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements. | | |

SECTION 7. HANDLING AND STORAGE

| : | Static electricity may accumulate and ignite suspended dust |
|---|--|
| | causing an explosion. |
| | Provide adequate precautions, such as electrical grounding |
| | and bonding, of ment atmospheres. |
| : | If sufficient ventilation is unavailable, use with local exhaust |
| | : |



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| Advice on safe handling | | : | ventilation. Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. | | | | |
| ŀ | lygiene | e measures | : | If exposure to che flushing systems a place. When using do no Wash contaminate The effective oper engineering contro appropriate degow industrial hygiene use of administrate | mical is likely during typical use, provide eye and safety showers close to the working t eat, drink or smoke. ed clothing before re-use. ation of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the tive controls. | | |
| C N | Conditio Materia | ons for safe storage Is to avoid | : | Keep in properly la Store locked up. Keep tightly closed Keep in a cool, we Store in accordance Do not store with t Strong oxidizing a | abelled containers. d. ell-ventilated place. ce with the particular national regulations. he following product types: gents | | |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|-------------------|----------|-------------------------------------|--|----------|
| Calcium carbonate | 471-34-1 | TWA | 10 mg/m3 (Calcium car- bonate) | AU OEL |
| sulfadiazine | 68-35-9 | TWA | 2 mg/m3 (OEB 1) | Internal |
| Trimethoprim | 738-70-5 | TWA | 400 µg/m3 (OEB 2) | Internal |

Components with workplace control parameters



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| | Engineering measures | : | Use feasible engir compound. | neering controls to minimize exposure to | | | | |
| | | | All engineering co design and operat protect products, v | All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. | | | | |
| | Personal protective equipme | ent | | | | | | |
| | Respiratory protection | : | If adequate local e sure assessment ommended guidel Particulates type | exhaust ventilation is not available or expo- demonstrates exposures outside the rec- ines, use respiratory protection. | | | | |
| | Hand protection | | 21 | | | | | |
| | Material | : | Chemical-resistan | t gloves | | | | |
| | Eye protection | : | Wear safety glass If the work enviror mists or aerosols, Wear a faceshield potential for direct aerosols. | es with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. I or other full face protection if there is a contact to the face with dusts, mists, or | | | | |
| | Skin and body protection | : | Work uniform or la | aboratory coat. | | | | |
| SEC | TION 9. PHYSICAL AND CHE | EMI | | 3 | | | | |
| | Appearance | : | powder | | | | | |
| | Colour | : | light yellow | | | | | |
| | Odour | : | No data available | 9 | | | | |
| | Odour Threshold | : | No data available | 9 | | | | |
| | 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 | : | Not applicable | | | | | |
| | Flammability (solid, gas) | : | May form explosi dling or other me | ve dust-air mixture during processing, han- ans. | | | | |
| | Flammability (liquids) | : | No data available | 9 | | | | |
| | Upper explosion limit / Upper flammability limit | : | No data available | | | | | |



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| | | | | | |
| | Lower flamma | explosion limit / Lower bility limit | : | No data available | 9 |
| | Vapour | pressure | : | Not applicable | |
| | Relativ | e vapour density | : | Not applicable | |
| | Relativ | e density | : | No data available | 9 |
| | Density | / | : | No data available | 9 |
| | Solubil Wat | ity(ies) er solubility | : | No data available | 9 |
| | Partitio | n coefficient: n- | : | Not applicable | |
| | Auto-ig | nition temperature | : | No data available | 9 |
| | Decom | position temperature | : | No data available | 9 |
| | Viscosi Visc | ty cosity, kinematic | : | Not applicable | |
| | Explos | ve properties | : | Not explosive | |
| | Oxidizi | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| | Particle | e size | : | INO data available | 3 |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | : | Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents. |
|---|---|--|
| Conditions to avoid | : | Heat, flames and sparks. Avoid dust formation. |
| Incompatible materials Hazardous decomposition | : | Oxidizing agents No hazardous decomposition products are known. |
| products | | |

SECTION 11. TOXICOLOGICAL INFORMATION

| Exposure routes | : Ir | nhalation |
|-----------------|------|-------------|
| - | S | kin contact |
| | Ir | ngestion |
| | E | ye contact |
| | | |



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| | | | | | | |
| | Acute Not cl | e toxicity assified based on availa | ble | information. | | |
| | Prod | uct: | | | | |
| | Acute | oral toxicity | : | Acute toxicity esti Method: Calculati | mate: > 2,000 mg/kg on method | |
| | <u>Com</u> | oonents: | | | | |
| | Calci | um carbonate: | | | | |
| | Acute | oral toxicity | : | LD50 (Rat): > 2,0 Method: OECD T Assessment: The icity | 00 mg/kg est Guideline 420 substance or mixture has no acute oral tox- | |
| | Acute | inhalation toxicity | : | LC50 (Rat): > 3 m Exposure time: 4 Test atmosphere: Method: OECD To Assessment: The tion toxicity | ig/l h dust/mist est Guideline 403 substance or mixture has no acute inhala- | |
| | Acute | dermal toxicity | : | LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity | 00 mg/kg est Guideline 402 substance or mixture has no acute dermal | |
| | sulfa | diazine: | | | | |
| | Acute | oral toxicity | : | LD50 (Mouse): 1, | 500 mg/kg | |
| | Acute | dermal toxicity | : | LD50 (Rat): > 5,0 Remarks: Based | 00 mg/kg on data from similar materials | |
| | Acute admir | toxicity (other routes of nistration) | : | LD50 (Rat): 880 r Application Route | ng/kg : Intravenous | |
| | | | | LD50 (Mouse): 18 Application Route | 80 mg/kg : Intravenous | |
| | Trime | ethoprim: | | | | |
| | Acute | oral toxicity | : | LD50 (Rat): 1,500 | - 5,300 mg/kg | |
| | | | | LD50 (Mouse): 1, | 910 - 7,000 mg/kg | |
| | Acute admir | toxicity (other routes of histration) | : | LD50 (Rat): 400 - Application Route | 500 mg/kg : Intraperitoneal | |
| | | | | LD50 (Dog): 90 m Application Route | g/kg : Intravenous | |



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| | | | | | | | |
| | | | | LD50 (Mouse): 13 Application Route | 32 mg/kg e: Intravenous | | |
| | Skin co Causes | orrosion/irritation s skin irritation. | | | | | |
| | Compo | onents: | | | | | |
| | Calciu | m carbonate: | | | | | |
| | Specie Methoo Result | s 1 | : | Rabbit OECD Test Guide No skin irritation | eline 404 | | |
| | sulfadi | iazine: | | | | | |
| | Result Remar | ks | : | Skin irritation Based on data fro | om similar materials | | |
| | Seriou Causes | s eye damage/eye irr | itat | ion | | | |
| | Compo | onents: | | | | | |
| | Calciu | m carbonate: | | | | | |
| | Specie Result Method | s | : | Rabbit No eye irritation OECD Test Guide | eline 405 | | |
| | sulfadi | iazine: | | | | | |
| | Specie Result Remar | s ks | : | Rabbit Irritation to eyes, Based on data fro | reversing within 7 days om similar materials | | |
| | Respiratory or skin sensitisation | | | | | | |
| | Skin s | ensitisation | | | | | |
| | Not cla | ssified based on availa | able | information. | | | |
| | Respir May ca | atory sensitisation use allergy or asthma | syn | nptoms or breathing | g difficulties if inhaled. | | |
| | Compo | onents: | | | | | |
| | Calciu | m carbonate: | | | | | |

| : | Local lymph node assay (LLNA) |
|---|-------------------------------|
| : | Skin contact |
| : | Mouse |
| : | OECD Test Guideline 429 |
| : | negative |
| | : |



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| | | | | | |
| | sulfad | iazine: | | Maximisation Tos | * † |
| | Specie | ype es | : | Guinea pig | 5L |
| | Result | ke | : | Not a skin sensiti | zer. om similar materials |
| | Remai | N3 | • | Dased on data in | Similar materials |
| | Trimet | thoprim: | | | |
| | Test T | уре | : | Maximisation Tes | st |
| | Expos | ure routes es | : | Dermai Guinea pig | |
| | Result | - | : | Not a skin sensiti | zer. |
| | Chron | ic toxicity | | | |
| | Germ Not cla | cell mutagenicity assified based on avai | lable | information. | |
| | <u>Comp</u> | onents: | | | |
| | Calciu | m carbonate: | | | |
| | Genote | oxicity in vitro | : | Test Type: Bacte Method: OECD T Result: negative | rial reverse mutation assay (AMES) est Guideline 471 |
| | | | | Test Type: Chron Method: OECD T Result: negative | nosome aberration test in vitro est Guideline 473 |
| | | | | Test Type: In vitre Method: OECD T Result: negative | o mammalian cell gene mutation test est Guideline 476 |
| | culfad | iazina | | | |
| | Genote | oxicity in vitro | : | Test Type: Bacte Result: negative Remarks: Based | rial reverse mutation assay (AMES) |
| | | | | | |
| | | | | Test Type: Chron Test system: Chi | nosomal aberration nese hamster ovarv cells |
| | | | | Result: negative Remarks: Based | on data from similar materials |
| | Trime | honrim | | | |
| | Genot | noprini: oxicity in vitro | | Test Tune: Racta | rial reverse mutation assay (AMES) |
| | Genol | | • | Result: negative | nai teverse mulalion assay (AIVIES) |
| | | | | Test Type: Chron Result: negative | nosomal aberration |
| | | | | Test Type: In vitre | o mammalian cell gene mutation test |
| | | | | 10 / 19 | |



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| | | | | | |
| | | | | Result: negative | |
| | | | | Test Type: DNA d thesis in mammal Result: negative | lamage and repair, unscheduled DNA syn- ian cells (in vitro) |
| | Genoto | oxicity in vivo | : | Test Type: Micror Species: Rat Result: negative | nucleus test |
| | | | | Test Type: Chrom Species: Humans Result: negative | nosomal aberration |
| | Carcin Not cla | ogenicity ssified based on availa | able | information. | |
| | Reprod Suspec | ductive toxicity cted of damaging the u | nbo | rn child. | |
| | Compo | onents: | | | |
| | Calciu | m carbonate: | | | |
| | Effects | on fertility | : | Test Type: Combiner reproduction/dever Species: Rat Application Route Method: OECD To Result: negative | ined repeated dose toxicity study with the elopmental toxicity screening test : Ingestion est Guideline 422 |
| | Effects ment | on foetal develop- | : | Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative | ro-foetal development : Ingestion est Guideline 414 |
| | sulfadi | azine: | | | |
| | Effects ment | on foetal develop- | : | Test Type: Develor Species: Mouse Application Route General Toxicity M Result: Embryoto spring were detect | opment : Oral Maternal: NOAEL: 1,000 mg/kg body weight xic effects and adverse effects on the off- eted only at high maternally toxic doses |
| | Trimet | hoprim: | | | |
| | Effects | on fertility | : | Test Type: Fertility Species: Rat Application Route Fertility: NOAEL: Result: No effects | y : Oral 70 mg/kg body weight s on fertility |



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| | | | | |
| Eff me | ects on foetal develop- nt | : | Test Type: Develor Species: Rat Application Route Developmental To Result: Effects or Remarks: Matern | opment e: Oral oxicity: LOAEL: 70 mg/kg body weight n newborn al toxicity observed. |
| | | | Test Type: Develor Species: Rat Application Route Developmental To Result: Embryoto Remarks: Matern | opment e: Oral oxicity: LOAEL: 70 mg/kg body weight xic effects. al toxicity observed. |
| | | | Test Type: Develor Species: Rat Application Route Developmental To Result: Embryoto | opment e: Oral oxicity: LOAEL: 15 mg/kg body weight xic effects., Teratogenic effects |
| | | | Test Type: Develor Species: Hamster Application Route Developmental To Result: Embryoto | opment r e: Oral oxicity: LOAEL: 1.7 mg/kg body weight xic effects., No teratogenic effects |
| | | | Test Type: Develor Species: Rabbit Application Route Developmental To Result: Embryoto | opment e: Oral oxicity: LOAEL: 100 mg/kg body weight xic effects., No teratogenic effects |
| Re ses | productive toxicity - As- ssment | : | Suspected of dan | naging the unborn child. |
| ST Ma | OT - single exposure y cause respiratory irritations irritations irritations irritations irritations irritations irritations in the second s | on. | | |
| <u>Co</u> | mponents: | | | |
| su l As: | fadiazine: sessment | : | May cause respir | atory irritation. |
| ST Ma | OT - repeated exposure v cause damage to organ | s (Bo | one marrow) throug | ah prolonged or repeated exposure. |
| <u>Co</u> | mponents: | 、 | , (| |
| Tri Tai As: | methoprim: rget Organs sessment | : | Bone marrow Causes damage t exposure. | to organs through prolonged or repeated |



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| Rej <u>Co</u> l Cal Spe NO App Exp Met | Deated dose toxicity <u>mponents:</u> <u>cium carbonate:</u> ecies AEL plication Route posure time thod | : Rat : > 1,000 mg/k : Ingestion : 28 Days : OECD Test 6 | g Suideline 422 |
| Trii Spe NO LO App Exp Tar | methoprim: ecies AEL AEL blication Route posure time get Organs | : Rat : 100 mg/kg : 300 mg/kg : Oral : 6 Months : Bone marrow | , Liver, Pituitary gland, Thyroid |
| Spe LO/ App Exp Tar | ecies AEL olication Route oosure time get Organs | : Rat : 300 mg/kg : Oral : 3 Months : Bone marrow | |
| Spe NO LO/ App Exp Tar | ecies AEL AEL Dication Route posure time get Organs | : Dog : 2.5 mg/kg : 45 mg/kg : Oral : 3 Months : Blood, Thyroi | d |
| Ası Not | biration toxicity classified based on ava | ilable information. | |
| Exp | perience with human e | xposure | |
| <u>Co</u> | nponents: | | |
| sul Gei | fadiazine: neral Information | : May cause ey | e, skin, and respiratory tract irritation. |
| Trii Ing | nethoprim: estion | : Target Organ Symptoms: A Dizziness, He | s: Bone marrow bdominal pain, Nausea, Vomiting, skin rash, adache, mental depression, confusion |



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SECTION 12. ECOLOGICAL INFORMATION

| Ecotoxicity | | |
|---|---|--|
| Components: | | |
| Calcium carbonate: | | |
| Toxicity to fish | : | LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | NOELR (Pseudokirchneriella subcapitata (green algae)): 50 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 |
| | | EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 |
| Toxicity to microorganisms | : | NOEC: 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |
| | | EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |
| sulfadiazine: | | |
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Anabaena flos-aquae): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | | NOEC (Anabaena flos-aquae): 3.9 mg/l |



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| | | | | | |
| | | | | Exposure time: 72 Method: OECD T | 2 h est Guideline 201 |
| | | | | EC50 (Pseudokiro mg/l | chneriella subcapitata (green algae)): > 1 |
| | | | | Exposure time: 72 Method: OECD T | 2 n est Guideline 201 |
| | | | | NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T | rchneriella subcapitata (green algae)): 0.13 2 h est Guideline 201 |
| | | | | EC50 (Microcystis Exposure time: 7 Method: ISO 8692 | s aeruginosa (blue-green algae)): 0.135 mg/l Days 2 |
| | Toxicity aquatic ic toxici | to daphnia and other invertebrates (Chron- ty) | : | NOEC (Daphnia r Exposure time: 2 ⁴ Method: OECD T | nagna (Water flea)): 6.2 mg/l ⊢d est Guideline 211 |
| | Toxicity | to microorganisms | : | EC50: > 1,000 mg Exposure time: 3 Test Type: Respin Method: OECD Te | g/l h ation inhibition est Guideline 209 |
| | | | | NOEC: 1,000 mg/ Exposure time: 3 Test Type: Respir Method: OECD T | 'l h ation inhibition est Guideline 209 |
| | Trimet | hoprim: | | | |
| | Toxicity | v to fish | : | LC50 (Pimephale Exposure time: 96 | s promelas (fathead minnow)): 100 mg/l ১ h |
| | Toxicity aquatic | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna Straus): 92 mg/l 3 h |
| | Toxicity plants | to algae/aquatic | : | EC50 (Pseudokiro mg/l Exposure time: 72 | chneriella subcapitata (microalgae)): 80.3 2 h |
| | | | | NOEC (Pseudokin mg/l Exposure time: 72 | rchneriella subcapitata (green algae)): 16 2 h |
| | | | | EC50 (Anabaena Exposure time: 72 | flos-aquae): 253 mg/l 2 h |
| | | | | EC10 (Anabaena Exposure time: 72 | flos-aquae): 26 mg/l 2 h |



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| | | | | | |
| | Toxicity icity) | to fish (Chronic tox- | : | NOEC (Zebrafish) Exposure time: 21 |): 0.157 mg/l I d |
| | Toxicity aquatic | to daphnia and other invertebrates (Chron- | : | NOEC (Daphnia r Exposure time: 21 | nagna (Water flea)): 6 mg/l I d |
| | Toxicity | to microorganisms | : | EC10: 16.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te | hrs ation inhibition est Guideline 209 |
| | | | | EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te | g/l hrs ation inhibition est Guideline 209 |
| | Persist | ence and degradabili | ty | | |
| | <u>Compo</u> | nents: | | | |
| | sulfadia Biodegr | azine: adability | : | Result: Not readily Biodegradation: 0 Exposure time: 28 Method: OECD Te | y biodegradable.) % 3 d est Guideline 314 |
| | Trimeth Biodegr | noprim: adability | : | Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD Te Result: Not inhere Biodegradation: 0 Exposure time: 28 Method: OECD Te | y biodegradable. 4 % 3 d est Guideline 301D ently biodegradable.) % 3 d est Guideline 302B |
| | Bioacc | umulative potential | | | |
| | <u>Compo</u> | nents: | | | |
| | sulfadia Partition octanol/ | azine: n coefficient: n- /water | : | log Pow: 0.12 | |
| | Trimeth Partition octanol/ | n oprim: n coefficient: n- /water | : | log Pow: 0.91 | |
| | Mobility No data | y in soil available | | | |



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| | | | |

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | | |
|------------------------|---|--|
| Waste from residues | : | Do not dispose of waste into sewer. |
| | | Dispose of in accordance with local regulations. |
| Contaminated packaging | : | 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. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

| UNRTDG | | |
|------------------------------|---|--|
| UN number | : | UN 3077 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, |
| | | N.O.S. |
| | | (sulfadiazine) |
| Class | : | 9 |
| Packing group | : | |
| Labels | : | 9 |
| Environmentally hazardous | : | yes |
| IATA-DGR | | |
| UN/ID No. | : | UN 3077 |
| Proper shipping name | : | Environmentally hazardous substance, solid, n.o.s. |
| 1 11 0 | | (sulfadiazine) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | Miscellaneous |
| Packing instruction (cargo | : | 956 |
| aircraft) | | |
| Packing instruction (passen- | : | 956 |
| ger aircraft) | | |
| Environmentally hazardous | : | yes |
| IMDG-Code | | |
| UN number | : | UN 3077 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, |
| 1 11 3 | | N.O.S. |
| | | (sulfadiazine) |
| 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.



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|----------------|---------------------------|-----------|--|---|
| | | | | |
| Nation | al Regulations | | | |
| ADG | | | | |
| UN nu | mber | : | UN 3077 | |
| Proper | shipping name | : | ENVIRONMENTA N.O.S. (sulfadiazine) | LLY HAZARDOUS SUBSTANCE, SOLID, |
| Class | | : | 9 | |
| Packin | ig group | : | III | |
| Labels | i | : | 9 | |
| Hazch | em Code | : | 2Z | |
| Enviro | nmentally hazardous | : | yes | |

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.

SECTION 15. REGULATORY INFORMATION

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

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

| Further information Revision Date : Sources of key data used to | | 30.09.2023 | | |
|---|--|--|--|--|
| compile the Safety Data Sheet | | eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ | | |
| Date format : | | dd.mm.yyyy | | |
| Full text of other abbreviations | | | | |
| AU OEL : | | Australia. Workplace Exposure Standards for Airborne Con- | | |



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taminants.

AU OEL / TWA

Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and 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.

AU / EN