

| Version | Revision Date: | SDS Number: | Date of last issue: 2024/04/13 |
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1. PRODUCT AND COMPANY IDENTIFICATION

| Product name | : | Fluralaner / Moxidectin / Pyrantel Pamoate Formulation |
|--|----------|--|
| Manufacturer or supplier's de Company | eta : | ils MSD |
| Address | : | 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065 |
| Telephone | : | 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 Restrictions on use | : | Veterinary product Not applicable |

2. HAZARDS IDENTIFICATION

| GHS Classification Reproductive toxicity | : Category 2 |
|---|---|
| Short-term (acute) aquatic hazard | : Category 1 |
| Long-term (chronic) aquatic hazard | : Category 1 |
| GHS label elements Hazard pictograms | |
| Signal word | : Warning |
| Hazard statements | : H361d Suspected of damaging the unborn child. H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | Prevention: P201 Obtain special instructions before use. |



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P202 Do not handle until all safety precautions have been read and understood.P273 Avoid release to the environment.P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 18 %

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|--|-------------|-----------------------|
| Cellulose | 9004-34-6 | >= 10 -< 30 |
| 4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl- 2-[2-(2-thienyl)vinyl]pyrimidine (1:1) | 22204-24-6 | >= 10 -< 30 |
| Fluralaner | 864731-61-3 | >= 10 -< 25 |
| Magnesium Aluminometasilicate | 12511-31-8 | < 10 |
| Sodium n-dodecyl sulfate | 151-21-3 | >= 1 -< 2.5 |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | >= 0.025 -< 0.25 |
| Moxidectin | 113507-06-5 | >= 0.025 -< 0.25 |

4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. |
|----------------|---|--|
| | | When symptoms persist or in all cases of doubt seek medical advice. |
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention. |



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|--------------------------|---|--|--|--|--|--|--|
| In cas | se of skin contact | Remove cor Get medical | | | | | |
| | se of eye contact allowed | Thoroughly of If in eyes, rin Get medical If swallowed | Wash clothing before reuse. Thoroughly clean shoes before reuse. If in eyes, rinse well with water. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. | | | | |
| and e delay | | : Suspected of Dust contact | n thoroughly with water. If damaging the unborn child. It with the eyes can lead to mechanical irritation. | | | | |
| | ction of first-aiders s to physician | and use the when the po | 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). Treat symptomatically and supportively. | | | | |
| 5. FIREFI | GHTING MEASURES | | | | | | |
| Suita | ble extinguishing media | : Water spray Alcohol-resis Carbon diox Dry chemica | stant foam ide (CO2) | | | | |
| Unsu media | itable extinguishing | : None known | | | | | |
| Speci fightir Haza | ific hazards during fire- | : Carbon oxid | | | | | |
| ucts | | Chlorine con Fluorine con Nitrogen oxi Sulphur oxid Metal oxides Silicon oxide | npounds des (NOx) les s | | | | |
| Spec ods | ific extinguishing meth- | : Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is saf so. | | | | | |
| | ial protective equipment efighters | | ea. of fire, wear self-contained breathing apparatus. al protective equipment. | | | | |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- : | Use personal protective equipment. |
|---------------------------------|---|
| tive equipment and emer- | Follow safe handling advice (see section 7) and personal pro- |
| gency procedures | tective equipment recommendations (see section 8). |



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| En | vironmental precautions | : | Retain and dispos | akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages | |
| | | | Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. | | |
| 7. HAN | DLING AND STORAGE | | | | |
| Te | chnical measures | : | causing an explos | precautions, such as electrical grounding | |
| | cal/Total ventilation lvice on safe handling | :: | Use only with ade Do not get on skin Do not breathe du Do not swallow. Avoid contact with Handle in accorda practice, based of sessment Minimize dust ger Keep container cl Keep away from h Take precautiona | equate ventilation. n or clothing. ust. | |
| Co | onditions for safe storage | : | Keep in properly I Store locked up. | abelled containers. | |
| Ma | aterials to avoid | : | | ce with the particular national regulations. the following product types: agents | |



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type | Control parame- | Basis | | |
|--|---|------------------------------|----------------------------|----------|--|--|
| Componente | 0/10/10. | (Form of | ters / Permissible | 24010 | | |
| | | exposure) | concentration | | | |
| Cellulose | 9004-34-6 | NAB | 10 mg/m3 | ID OEL | | |
| | 000+0+0 | TWA | 10 mg/m3 | ACGIH | | |
| 4,4'-methylenebis[3-hydroxy-2- naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- methyl-2-[2-(2- thienyl)vinyl]pyrimidine (1:1) | 22204-24-6 | TWA | 250 μg/m3 (OEB 2) | Internal | | |
| Fluralaner | 864731-61-3 | TWA | 100 µg/m3 (OEB 2) | Internal | | |
| | Further informa | ation: Skin | | | | |
| | | Wipe limit | 1000 µg/100 cm² | Internal | | |
| Magnesium Aluminometasili- | 12511-31-8 | NAB (Res- | 1 mg/m3 | ID OEL | | |
| cate | | pirable par- | (Aluminium) | | | |
| | | ticulate mat- ter) | | | | |
| | Further information: Not classified as carcinogenic to humans. No | | | | | |
| | enough data to classify these materials as carcinogenic to hu- | | | | | |
| | mans or anima | | | | | |
| | | TWA (Res- | 1 mg/m3 | ACGIH | | |
| | | pirable par- | (Aluminium) | | | |
| | | ticulate mat- | | | | |
| 2.0 Distort butul a propol | 400.07.0 | ter) | 2 | | | |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | TWA (Inhal- able fraction | 2 mg/m3 | ACGIH | | |
| | | and vapor) | | | | |
| Moxidectin | 113507-06-5 | TWA | 10 µg/m3 (OEB 3) | Internal | | |
| | | Wipe limit | 100 µg/100 cm ² | Internal | | |

Engineering measures : All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.

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 | : | Particulates type |



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| | | | | | | |
| Ma | aterial | : Che | mical-resista | nt gloves | | |
| | emarks protection | : Wea If the mist Wea pote | e work enviro s or aerosols ar a faceshiel | gloving. ses with side shields or goggles. nment or activity involves dusty conditions, , wear the appropriate goggles. d or other full face protection if there is a et contact to the face with dusts, mists, or | | |
| Skin a | and body protection | Add task posa Use | Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, d posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentia contaminated clothing. | | | |
| Hygie | ene measures | : If ex | posure to ch | emical is likely during typical use, provide ems and safety showers close to the work- | | |

ing place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

use of administrative controls.

The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | solid |
|---|---|--|
| Colour | : | light pink, to, light brown |
| Odour | : | aromatic |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | May form explosive dust-air mixture during processing, han- dling or other means. |



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| | | | | | |
| | Flamm | ability (liquids) | : | Not applicable | |
| | | explosion limit / Upper ability limit | : | No data available | 9 |
| | | explosion limit / Lower ability limit | : | No data available | e |
| | Vapour | pressure | : | Not applicable | |
| | Relativ | e vapour density | : | Not applicable | |
| | Relativ | e density | : | No data available | e |
| | Density | / | : | No data available | e |
| | Solubil Wat | ity(ies) er solubility | : | No data available | e |
| | Partitio octano | n coefficient: n- | : | Not applicable | |
| | | nition temperature | : | No data available | 9 |
| | Decom | position temperature | : | No data available | 9 |
| | Viscosi Visc | ty cosity, kinematic | : | Not applicable | |
| | Explos | ive properties | : | Not explosive | |
| | Oxidizi | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| | Molecu | ılar weight | : | No data available | e |
| | Particle Particle | e characteristics e size | : | No data available | e |

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 | : | Oxidizing agents |



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| Haza prod | ardous decomposition ucts | : | No hazardous | decomposition products are known. | | | |
| 11. TOXI | COLOGICAL INFORMAT | 101 | N | | | | |
| | mation on likely routes of osure | : | Inhalation Skin contact Ingestion Eye contact | | | | |
| | te toxicity classified based on availa | ble | information. | | | | |
| Proc | <u>duct:</u> | | | | | | |
| Acut | e oral toxicity | : | Acute toxicity e Method: Calcu | estimate: > 2,000 mg/kg lation method | | | |
| <u>Con</u> | ponents: | | | | | | |
| Cell | ulose: | | | | | | |
| Acut | e oral toxicity | : | LD50 (Rat): > 5,000 mg/kg | | | | |
| Acut | Acute inhalation toxicity | | LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist | | | | |
| Acut | e dermal toxicity | : | LD50 (Rabbit): | > 2,000 mg/kg | | | |
| | methylenebis[3-hydroxy hyl-2-[2-(2-thienyl)vinyl] | | | d, compound with (E)-1,4,5,6-tetrahydro-1- | | | |
| Acut | e oral toxicity | : | LD50 (Rat): > | 24,000 mg/kg | | | |
| | | | LD50 (Mouse) | : > 24,000 mg/kg | | | |
| | | | LD50 (Dog): 2 | ,000 mg/kg | | | |
| Flur | alaner: | | | | | | |
| | e oral toxicity | : | | 2,000 mg/kg nortality observed at this dose. adverse effects were reported | | | |
| Acut | e dermal toxicity | : LD50 (Rat): > 2,000 mg/kg Remarks: No significant adverse effects were reported | | | | | |
| Maq | nesium Aluminometasil | icat | e: | | | | |
| | e oral toxicity | : | LD50 (Rat): > | 5,000 mg/kg | | | |
| Acut | e inhalation toxicity | : | LC50 (Rat): > Exposure time | | | | |



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| | | | | |
| | | | Test atmosphere: Method: OECD To Remarks: Based of | |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > 3 | 3.500 mg/kg |
| Sodiu | um n-dodecyl sulfate: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): 1,200 Method: OECD Te | |
| Acute | e dermal toxicity | : | LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials | |
| •• 2,6-D | i-tert-butyl-p-cresol: | | | |
| | oral toxicity | : | LD50 (Rat): > 6,00 Method: OECD Te | |
| Acute | e dermal toxicity | : | LD50 (Rat): > 2,00 Method: OECD To Assessment: The toxicity | |
| II Moxid | dectin: | | | |
| | e oral toxicity | : | LD50 (Rat): 106 n | ng/kg |
| | | | LD50 (Mouse): 42 | - 84 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): 3.28 Exposure time: 5 Test atmosphere: | h |
| | | | LC50 (Rat): 2.87 - Test atmosphere: | |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > 2 Remarks: No sign | 2,000 mg/kg ificant adverse effects were reported |
| | e toxicity (other routes of nistration) | : | LD50 (Rat): 394 n Application Route | |
| | | | LD50 (Mouse): 84 Application Route | |
| | | | LD50 (Rat): > 640 Application Route | |
| | | | LD50 (Mouse): 26 Application Route | |



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| Skin corrosion/irritation | | | | | | | | |
|---------------------------------|--|---|--|--|--|--|--|--|
| Components: | Not classified based on available information. | | | | | | | |
| Fluralaner: | | | | | | | | |
| Species | | Rabbit | | | | | | |
| Result | | No skin irritation | | | | | | |
| Magnesium Aluminometasili | icat | e: | | | | | | |
| Species | | Rabbit | | | | | | |
| Result | | No skin irritation | | | | | | |
| Remarks | : | Based on data from similar materials | | | | | | |
| Sodium n-dodecyl sulfate: | | | | | | | | |
| Species Result | | Rabbit Skin initation | | | | | | |
| Result | : | Skin irritation | | | | | | |
| 2,6-Di-tert-butyl-p-cresol: | | | | | | | | |
| Species | | Rabbit | | | | | | |
| Method Result | | OECD Test Guideline 404 No skin irritation | | | | | | |
| Remarks | ÷ | Based on data from similar materials | | | | | | |
| | | | | | | | | |
| Moxidectin: | | | | | | | | |
| Species Result | : | Rabbit | | | | | | |
| Result | : | Mild skin irritation | | | | | | |
| Serious eye damage/eye irrit | ati | on | | | | | | |
| Not classified based on availal | ole | information. | | | | | | |
| Components: | | | | | | | | |
| Fluralaner: | | | | | | | | |
| Species | : | Rabbit | | | | | | |
| Result | : | Mild eye irritation | | | | | | |
| Magnesium Aluminometasilicate: | | | | | | | | |
| Species | : | Rabbit | | | | | | |
| Result Remarks | ÷ | No eye irritation Based on data from similar materials | | | | | | |
| Internaliva | • | Dased on data nom similar materials | | | | | | |
| Sodium n-dodecyl sulfate: | | | | | | | | |
| Species | : | Rabbit | | | | | | |
| Result | : | Irreversible effects on the eye | | | | | | |



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|---|---|---|--|--|--|--|--|
| Metho 2,6-Di Specie | -tert-butyl-p-cresol: | : OECD Test Guideline 405 | | | | | |
| Result Metho Rema | t od | No eye irritation OECD Test Guideline 405 Based on data from similar materials | | | | | |
| Specie Result | es | : Rabbit : Moderate eye irritation | | | | | |
| Skin s | Respiratory or skin sensitisation Skin sensitisation Not classified based on available information. | | | | | | |
| Not cla | ratory sensitisation assified based on avail ponents: | ble information. | | | | | |
| Flural Test T Expos Specie Result | ype ure routes es | Maximisation Test Dermal Guinea pig Not a skin sensitizer. | | | | | |
| Test T | eure routes es id t | licate: Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Based on data from similar materials | | | | | |
| Test T | ure routes es t | Maximisation Test Skin contact Guinea pig negative Based on data from similar materials | | | | | |
| Test T | sure routes | Human repeat insult patch test (HRIPT) Skin contact Humans | | | | | |



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| Resu | lt | : negative | |
| Movi | dectin: | | |
| Test | | : Buehler Test | |
| | sure routes | : Dermal | |
| Spec | | : Guinea pig | |
| Resu | lt | : Not a skin se | ensitizer. |
| Germ | n cell mutagenicity | | |
| Not c | lassified based on ava | ailable information. | |
| Com | ponents: | | |
| Cellu | llose: | | |
| Geno | toxicity in vitro | : Test Type: B Result: nega | acterial reverse mutation assay (AMES) tive |
| | | Test Type: In Result: nega | n vitro mammalian cell gene mutation test tive |
| Geno | otoxicity in vivo | cytogenetic a Species: Mor | use Route: Ingestion |
| | nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin | | cid, compound with (E)-1,4,5,6-tetrahydro-1- |
| Geno | toxicity in vitro | : Test Type: B Result: nega | acterial reverse mutation assay (AMES) tive |
| | llaner: | | |
| | otoxicity in vitro | : Test Type: B Result: nega | acterial reverse mutation assay (AMES) tive |
| | | Test Type: M Result: nega | louse Lymphoma tive |
| | | Test Type: C Result: nega | hromosomal aberration tive |
| Geno | otoxicity in vivo | : Test Type: M Species: Mou Cell type: Bo Application R Result: nega | ne marrow Route: Oral |

Magnesium Aluminometasilicate:



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| | | | | |
| Geno | toxicity in vitro | : | Result: negative Remarks: Based | rial reverse mutation assay (AMES) on data from similar materials |
| | | | Method: OECD T Result: negative | o mammalian cell gene mutation test est Guideline 476 on data from similar materials |
| | | | Result: negative | nosome aberration test in vitro on data from similar materials |
| Geno | toxicity in vivo | : | cytogenetic test, Species: Rat Application Route Result: negative | genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion on data from similar materials |
| | | | | |
| | um n-dodecyl sulfate: toxicity in vitro | : | | rial reverse mutation assay (AMES) Test Guideline 471 |
| | | | Test Type: In vitr Result: negative | o mammalian cell gene mutation test |
| Geno | toxicity in vivo | : | Test Type: Roder Species: Mouse Application Route Result: negative | nt dominant lethal test (germ cell) (in vivo) e: Ingestion |
| ∎ 2,6-D | i-tert-butyl-p-cresol: | | | |
| Geno | toxicity in vitro | : | Test Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | | Test Type: In vitr Result: negative | o mammalian cell gene mutation test |
| | | | Test Type: Chror Result: negative | nosome aberration test in vitro |
| Geno | toxicity in vivo | : | | genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion |
| 11 | | | | |



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| Moxi | dectin: | | | |
| Geno | toxicity in vitro | : | Test Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | | | o mammalian cell gene mutation test nese hamster ovary cells |
| | | | Test Type: in vitro Test system: Esc Result: negative | |
| Geno | toxicity in vivo | : | Test Type: Chron Species: Rat Cell type: Bone n Result: negative | nosomal aberration narrow |
| | | | Test Type: Unsch mammalian liver Species: Rat Cell type: Liver co Result: negative | |
| | i nogenicity lassified based on ava | ailable | information. | |
| Com | ponents: | | | |
| Cellu | | | | |
| | cation Route sure time | : | Rat Ingestion 72 weeks negative | |

Fluralaner:

| Carcinogenicity - Assess- | : | No data available |
|---------------------------|---|-------------------|
| ment | | |

Magnesium Aluminometasilicate:

| Species | : | Rat |
|--|---|--------------------------------------|
| Application Route | : | Ingestion |
| Exposure time | : | 103 weeks |
| Result | : | negative |
| Species Application Route Exposure time Result Remarks | : | Based on data from similar materials |

Sodium n-dodecyl sulfate:

| Species | : Rat |
|------------------------------|-------------|
| Species Application Route | : Ingestion |



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| Expo Metho Resu Rema | lt | | 2 Years OECD Test Gui negative Based on data f | deline 453 rom similar materials |
| | | | | |
| Speci Applie | cation Route sure time | | Rat Ingestion 22 Months negative | |
| Moxi | dectin: | | | |
| | cation Route sure time EL | : | Mouse Oral 2 Years 4.5 mg/kg body negative | weight |
| | cation Route sure time EL | : | Rat Oral 2 Years 4.5 mg/kg body negative | weight |
| | cation Route sure time EL | | Dog Oral 1 Years 0.5 mg/kg body negative | weight |
| Repr | oductive toxicity | | | |
| - | ected of damaging the | unbo | rn child. | |
| Com | ponents: | | | |
| Cellu Effect | lose: ts on fertility | : | Test Type: One Species: Rat Application Rou Result: negative | |
| Effect ment | ts on foetal develop- | : | Test Type: Ferti Species: Rat Application Rou Result: negative | |

4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):



| ersion .0 | Revision Date: 2024/07/06 | SDS Number: 7900839-00011 | Date of last issue: 2024/04/13 Date of first issue: 2021/03/17 |
|---------------|------------------------------|---|--|
| Effec | ts on foetal develop- | Species: Rat Application R Development Result: No eff ment were de Test Type: Er Species: Rab Application R Development | al Toxicity: NOAEL: 3,000 mg/kg body weight fects on fertility and early embryonic develop- tected. nbryo-foetal development bit oute: Oral al Toxicity: NOAEL: 1,000 mg/kg body weight fects on fertility and early embryonic develop- |
| II Flura | alaner: | | |
| Effec | ts on fertility | Species: Rat Application R General Toxic General Toxic | city - Parent: NOAEL: 50 mg/kg body weight city F1: LOAEL: 100 mg/kg body weight fects on fertility, Postimplantation loss., Adverse |
| | | Species: Dog Application R Fertility: NOA Result: No eff ment were de | oute: Oral EL: 75 mg/kg body weight rects on fertility and early embryonic develop- |
| Effec ment | ts on foetal develop- | Result: Embry | oute: Oral al Toxicity: NOAEL: 100 mg/kg body weight yotoxic effects and adverse effects on the off- etected only at high maternally toxic doses, No |
| | | Result: Skele | bit |
| | | Test Type: De Species: Rab Application R Development | bit |



| /ersion 8.0 | Revision Date: 2024/07/06 | SDS Number: 7900839-00011 | Date of last issue: 2024/04/13 Date of first issue: 2021/03/17 |
|----------------|---------------------------------|---|--|
| | | | |
| | | Result: Skeletal | malformations |
| Repro sessn | oductive toxicity - As- nent | : Suspected of da | amaging the unborn child. |
| Magn | esium Aluminometa | silicate: | |
| Effect ment | ts on foetal develop- | Species: Rat Application Rou Result: negative | |
| Sodiu | um n-dodecyl sulfate: | | |
| | ts on fertility | : Test Type: Two Species: Rat Application Rou Method: OECD Result: negative | Test Guideline 416 |
| Effect ment | ts on foetal develop- | Species: Rat Application Rou Result: negative | |
| 2.6-D | i-tert-butyl-p-cresol: | | |
| | ts on fertility | : Test Type: Two- Species: Rat Application Rou Result: negative | |
| Effect ment | ts on foetal develop- | : Test Type: Emb Species: Rat Application Rou Result: negative | |
| Moxi | dectin: | | |
| | ts on fertility | Species: Rat Application Rou General Toxicity Symptoms: Red Result: No effect fects on develop | / F1: LOAEL: 0.8 mg/kg body weight luced foetal weight, foetal mortality sts on fertility, Some evidence of adverse ef- oment, based on animal experiments. re-generation reproduction toxicity study |



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| | | | Symptoms: Redu Result: No effects | F1: LOAEL: 0.8 mg/kg body weight ced foetal weight, foetal mortality s on fertility, Some evidence of adverse ef- nent, based on animal experiments. |
| Effects ment | s on foetal develop- | : | Species: Rat Application Route General Toxicity I Embryo-foetal tox Result: Skeletal n | Maternal: LOAEL: 10 mg/kg body weight icity: LOAEL: 10 mg/kg body weight |
| | | | Species: Rabbit Application Route General Toxicity I Developmental To | vo-foetal development e: Oral Maternal: LOAEL: 5 mg/kg body weight oxicity: NOAEL: 10 mg/kg body weight genic effects, No embryotoxic effects |
| Reproc sessm | ductive toxicity - As- ent | : | Some evidence o animal experimer | f adverse effects on development, based on its. |
| | - single exposure | able | information. | |
| | repeated exposure assified based on available | able | information. | |
| Comp | onents: | | | |
| 2,6-Di- | tert-butyl-p-cresol: | | | |
| Assess | sment | : | No significant heations of 100 mg/kg | alth effects observed in animals at concentra- g bw or less. |
| Moxid Target Assess | Organs | : | Central nervous s Causes damage t exposure. | system to organs through prolonged or repeated |
| Repea | ted dose toxicity | | | |
| Comp | onents: | | | |
| Cellulo | | | | |
| | | : | Rat >= 9,000 mg/kg Ingestion 90 Days | |



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4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

| Species:NOAEL:LOAEL:Application Route:Exposure time:Remarks: | Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant adverse effects were reported |
|--|---|
| Species:NOAEL:Application Route:Exposure time:Remarks: | Dog 600 mg/kg Oral 19 d No significant adverse effects were reported |
| Species:NOAEL:Application Route:Exposure time:Remarks: | Dog 600 mg/kg Oral 30 d No significant adverse effects were reported |
| Species:NOAEL:Application Route:Exposure time:Remarks: | Dog 600 mg/kg Oral 90 d No significant adverse effects were reported |
| Fluralaner: | |
| Species:NOAEL:Application Route:Exposure time:Target Organs:Remarks: | Dog 1 mg/kg Oral 52 Weeks Liver No significant adverse effects were reported |
| Species : LOAEL : Application Route : | Juvenile dog 56 - 280 mg/kg |
| Exposure time : Symptoms : | Oral 24 Weeks Diarrhoea |
| Exposure time : | 24 Weeks |



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|--|--|-------|---|---|
| NOAE | | : | 500 mg/kg Dermal | |
| Expos Targe Rema | cation Route sure time tt Organs trks | : | 90 Days Liver No significant ad | verse effects were reported |
| Magn | esium Aluminometasi | ilica | te: | |
| | es cation Route sure time | : | Rat >= 1000 mg/kg Ingestion 100 Days | |
| Sodiu | ım n-dodecyl sulfate: | | | |
| Speci NOAE Applic Expos Rema | EL cation Route sure time | : | Rat 488 mg/kg Ingestion 90 Days Based on data fre | om similar materials |
| | i-tert-butyl-p-cresol: | | | |
| Speci NOAE Applic Expos | | | Rat 25 mg/kg Ingestion 22 Months | |
| Moxid | dectin: | | | |
| Speci NOAE LOAE Applic Expos Symp | EL EL cation Route sure time | : | Mouse 3.9 mg/kg 15.4 mg/kg Oral 4 Weeks Tremors | |
| Expos | EL EL cation Route sure time ot Organs | : | Rat 3.9 mg/kg 7.9 mg/kg Oral 13 Weeks Central nervous s Tremors, Salivati | |
| Expos | EL EL cation Route sure time t Organs | | Dog 0.3 mg/kg 0.9 mg/kg Oral 90 Days Central nervous s Tremors, Lachryn | system nation, Salivation |



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| Species NOAEL Application Route Exposure time Target Organs Symptoms | Dog 1.15 mg/kg Oral 52 Weeks Central nervous system Tremors, Lachrymation |
|---|--|
|---|--|

Aspiration toxicity

Not classified based on available information.

Components:

Fluralaner:

Not applicable

Experience with human exposure

Components:

4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

| Symptoms: Abdominal pain, Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Fever |
|--|
| |
| Remarks: May irritate skin. |
| Remarks: May cause eye irritation. |
| |
| Remarks: No human information is available. |
| |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Cellulose:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials



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4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

| Ecotoxicology Assessment Acute aquatic toxicity | : | Toxic effects cannot be excluded |
|--|-----|--|
| Chronic aquatic toxicity | : | Toxic effects cannot be excluded |
| Fluralaner: Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.0488 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 0.015 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility |
| Toxicity to algae/aquatic plants | : | NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.08 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility |
| Toxicity to fish (Chronic tox- icity) | : | NOEC (Zebrafish): >= 0.049 mg/l Exposure time: 21 d Method: OECD Test Guideline 204 Remarks: No toxicity at the limit of solubility |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | | NOEC (Daphnia magna (Water flea)): 0.0736 μg/l Exposure time: 21 d Method: OECD Test Guideline 211 |
| M-Factor (Chronic aquatic toxicity) | : | 1,000 |
| Magnesium Aluminometasil | ica | te: |
| Ecotoxicology Assessment Chronic aquatic toxicity | : | No toxicity at the limit of solubility |
| Sodium n-dodecyl sulfate: | | |
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 29 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Ceriodaphnia dubia (water flea)): 5.55 mg/l Exposure time: 48 h |
| Toxicity to algae/aquatic | : | ErC50 (Desmodesmus subspicatus (green algae)): > 120 mg/l |



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| | | | | |
| plants | | | Exposure time: 72 | 2 h |
| | | | NOEC (Desmode Exposure time: 72 | smus subspicatus (green algae)): 30 mg/l 2 h |
| Toxicit icity) | y to fish (Chronic tox- | : | NOEC (Pimephale mg/l Exposure time: 42 | es promelas (fathead minnow)): >= 1.357 2 d |
| | ty to daphnia and other c invertebrates (Chron- | : | NOEC (Ceriodaph Exposure time: 7 | nnia dubia (water flea)): 0.88 mg/l d |
| | ty to microorganisms | : | EC50: 135 mg/l Exposure time: 3 | h |
| 2,6-Di | -tert-butyl-p-cresol: | | | |
| Toxicit | y to fish | : | Exposure time: 96 | (zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1. |
| | ty to daphnia and other c invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| Toxicit plants | y to algae/aquatic | : | ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |
| | tor (Acute aquatic tox- | : | 1 | |
| icity) Toxicit icity) | ty to fish (Chronic tox- | : | NOEC (Oryzias la Exposure time: 30 Method: OECD Te | |
| | ty to daphnia and other c invertebrates (Chron- | : | NOEC (Daphnia r Exposure time: 21 | nagna (Water flea)): 0.316 mg/l I d |
| M-Fac | tor (Chronic aquatic | : | 1 | |
| toxicity Toxicit | /) y to microorganisms | : | EC50: > 10,000 m Exposure time: 3 Method: OECD Te | ĥ |

Moxidectin:



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| | | | | |
| Toxic | ity to fish | : | LC50 (Lepomis m Exposure time: 96 Method: OECD T | |
| | | | LC50 (Oncorhyno Exposure time: 96 Method: OECD T | |
| | ity to daphnia and other tic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD T | |
| Toxic plants | ity to algae/aquatic S | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To | |
| | ctor (Acute aquatic tox- | : | 10,000 | |
| icity) M-Fa toxicit | ctor (Chronic aquatic ty) | : | 10,000 | |
| Persi | stence and degradabil | ity | | |
| <u>Com</u> | ponents: | | | |
| Cellu | | | | |
| Biode | egradability | : | Result: Readily bi | odegradable. |
| Sodiu | um n-dodecyl sulfate: | | | |
| Biode | gradability | : | Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T | 95 % |
| 11 2,6-D | i-tert-butyl-p-cresol: | | | |
| | gradability | : | Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T | 4.5 % |
| II Bioad | ccumulative potential | | | |
| Com | ponents: | | | |
| Flura | laner: | | | |
| Bioac | cumulation | : | Species: Zebrafis Bioconcentration Method: OECD T | factor (BCF): 79.4 |



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| | ion coefficient: n- ol/water | : | log Pow: 4.5 | |
| | um n-dodecyl sulfate: | | | |
| Partit | ion coefficient: n- ol/water | : | log Pow: 0.83 | |
| 2,6-D | i-tert-butyl-p-cresol: | | | |
| Bioac | cumulation | : | | us carpio (Carp) n factor (BCF): 330 - 1,800 |
| | ion coefficient: n- ol/water | : | log Pow: 5.1 | |
| Moxi | dectin: | | | |
| | ion coefficient: n- ol/water | : | log Pow: 4.7 | |
| Mobi | lity in soil | | | |
| <u>Com</u> | ponents: | | | |
| Distri | laner: bution among environ- al compartments | : | log Koc: 4.1 | |
| = = | r adverse effects | | | |
| Com | ponents: | | | |
| | | | | |
| Resu | laner: Its of PBT and vPvB ssment | : | Substance is no | ot persistent, bioaccumulative, and toxic (PBT |
| 13. DISPC | SAL CONSIDERATIO | NS | | |
| Dispo | osal methods | | | |
| Waste | e from residues | : | | of waste into sewer. |
| Conta | aminated packaging | : | Empty containe dling site for rec | cordance with local regulations. rs should be taken to an approved waste han cycling or disposal. specified: Dispose of as unused product. |
| 14. TRAN | SPORT INFORMATION | 1 | | |
| Interi | national Regulations | | | |
| | TDG umber er shipping name | : | UN 3077 ENVIRONMEN N.O.S. | TALLY HAZARDOUS SUBSTANCE, SOLID, |

N.O.S. (Fluralaner, Moxidectin)



Fluralaner / Moxidectin / Pyrantel Pamoate **Formulation**

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| | | | | |
| Labels | g group nmentally hazardous | :: | 9 III 9 yes | |
| · | - | : | (Fluralaner, Moxi | nazardous substance, solid, n.o.s. dectin) |
| Labels | g instruction (cargo | : | 9 III Miscellaneous 956 | |
| Packin ger aire | g instruction (passen- | : | 956 ves | |
| IMDG- UN nui | Code | : | UN 3077 | ALLY HAZARDOUS SUBSTANCE, SOLID, |
| Labels EmS C | | : | (Fluralaner, Moxid 9 III 9 F-A, S-F yes | lectin) |

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable



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

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

| Hazardous substances approved for use | : | Sodium hydroxide |
|---------------------------------------|---|------------------|
| Prohibited substances | : | Not applicable |
| Restricted substances | : | Not applicable |

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

| Revision Date | : | 2024/07/06 |
|---|---|--|
| Further information | | |
| Sources of key data used to compile the Safety Data Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |

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

| Date format | : | yyyy/mm/dd |
|---------------------------------|-----|--|
| Full text of other abbreviation | ons | |
| ACGIH ID OEL | | USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits |
| ACGIH / TWA ID OEL / NAB | | 8-hour, time-weighted average Long term exposure limit |

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;



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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.

ID / EN