

SAFETY DATA SHEET



OVERWATCH® HERBICIDE

Version Revision Date: SDS Number: Date of last issue: 07.04.2022
 21.09.2023 50001617 Date of first issue: 04.02.2020

Effects on foetal development : Test Type: Embryo-foetal development
 Species: Mouse
 Application Route: Oral
 Method: OECD Test Guideline 414
 Result: Animal testing did not show any effects on fertility.
 Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

Components:

Lignin, sodium salt:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Bixlozone:

Species : Rat
 NOAEL : 121 mg/kg bw/day
 Application Route : Oral - feed
 Exposure time : 90 days

Species : Rat
 NOAEL : 359 mg/kg bw/day
 Application Route : Oral - feed
 Exposure time : 28 days

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts:

Species : Rat, male and female
 Application Route : Oral
 Exposure time : 13 weeks
 Method : OECD Test Guideline 408
 Remarks : No significant adverse effects were reported
 Based on data from similar materials

propane-1,2-diol:

Species : Rat, male and female
 NOAEL : 1,700 mg/kg
 Application Route : Oral
 Exposure time : 2 Years

Species : Rat, male and female
 NOAEL : 1,000 mg/kg
 LOAEL : 160 mg/kg
 Application Route : Inhalation
 Exposure time : 90 Days

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Aspiration toxicity

Not classified based on available information.

Components:**Bixlozone:**

The substance does not have properties associated with aspiration hazard potential.

Neurological effects**Components:****Bixlozone:**

No neurotoxicity observed in animal studies

Further information**Product:**

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 11 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 23 mg/l
aquatic invertebrates : Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l
plants : Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 6.8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (Skeletonema costatum (Diatom)): 17 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Skeletonema costatum (Diatom)): 7.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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- Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 145.6 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
- Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,000 mg/kg
End point: Acute oral toxicity
Method: OECD Test Guideline 223
- LD50 (*Apis mellifera* (bees)): > 111.1 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Method: OECD Test Guideline 213
- LD50 (*Apis mellifera* (bees)): > 100 µg/bee
Exposure time: 48 d
End point: Acute contact toxicity
Method: OECD Test Guideline 214

Components:**Bixlozone:**

- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 9.8 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Thamnocephalus platyurus*): 0.11 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- EC50 (*Daphnia magna* (Water flea)): > 2.6 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC10 (*Myriophyllum spicatum*): 0.0071 mg/l
Exposure time: 14 d
Method: OECD Test Guideline 201
- EC50 (*Skeletonema costatum* (marine diatom)): 0.76 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- EC10 (*Skeletonema costatum* (marine diatom)): 0.24 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0.38 mg/l
Exposure time: 32 d
Test Type: Early Life-Stage
Method: OECD Test Guideline 210
- Toxicity to daphnia and other : NOEC (*Americamysis bahia* (mysid shrimp)): 0.12 mg/l

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aquatic invertebrates (Chronic toxicity)

Exposure time: 28 d
Test Type: Reproduction Test
Method: OPPTS 850.1350

Toxicity to soil dwelling organisms

: LC50 (*Eisenia fetida* (earthworms)): 156 mg/kg

Toxicity to terrestrial organisms

: LC50 (*Anas platyrhynchos* (Mallard duck)): > 5,000 mg/kg
Method: OECD Test Guideline 205

LD50 (*Apis mellifera* (bees)): > 100 µg/bee
End point: Acute contact toxicity
Method: OECD Test Guideline 214

LD50 (*Apis mellifera* (bees)): > 100 µg/bee
End point: Acute oral toxicity
Method: OECD Test Guideline 213

LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,000 mg/kg
Exposure time: 14 d
Method: OPPTS 850.2100

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts:

Toxicity to fish : LC50 (Fish): 3.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Ceriodaphnia dubia* (water flea)): 1.18 - 2.21 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 60 mg/l
Exposure time: 72 h

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Lignin, sodium salt:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 770 mg/l
Exposure time: 96 h

NOEC (*Pimephales promelas* (fathead minnow)): 313 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : NOEC (*Daphnia* (water flea)): 313 mg/l
Exposure time: 24 h

propane-1,2-diol:

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l
Exposure time: 96 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 34,100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l
Exposure time: 7 d
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 20,000 mg/l
Exposure time: 18 h

Persistence and degradability

Components:

Bixlozone:

- Biodegradability : Result: Not readily biodegradable.
- Stability in water : Hydrolysis: < 5 % at 25 °C(30 d)
Method: OECD Test Guideline 111
Remarks: Does not readily hydrolyze
- Photodegradation : Method: OECD Test Guideline 316
Remarks: Decomposes slowly in contact with light.

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts:

- Biodegradability : Result: Readily biodegradable.

Lignin, sodium salt:

- Biodegradability : Result: Not readily biodegradable.
Biodegradation: 5 %
Method: OECD Test Guideline 301E

propane-1,2-diol:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: 23.6 %
Exposure time: 64 d
Method: OECD Test Guideline 306

Bioaccumulative potential

Components:

Bixlozone:

- Bioaccumulation : Bioconcentration factor (BCF): 49

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Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3.3 (22 °C)
pH: 7
Method: OECD Test Guideline 107

propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: -1.07

Mobility in soil

Components:

Bixlozone:

Distribution among environmental compartments : Remarks: Moderately mobile in soil

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts:

Distribution among environmental compartments : Koc: 196.1 ml/g, log Koc: 2.29
Remarks: Mobile in soils

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable

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Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable

IATA-DGR

UN/ID No. : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo aircraft) : Not applicable
Packing instruction (passenger aircraft) : Not applicable

IMDG-Code

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
EmS Code : Not applicable
Marine pollutant : Not applicable

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

Not applicable for product as supplied.

National Regulations

ADG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Hazchem Code : Not applicable

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 5

APVMA Approval no: 86427

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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:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.
2-(2,4-DICHLOROBENZYL)-4,4-DIMETHYLISOXAZOLIDIN-3-ONE
Smectite-group minerals

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date : 21.09.2023

Date format : dd.mm.yyyy

Full text of other abbreviations

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

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 Sys-

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

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