

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

SECTION 1: IDENTIFICATION

Product name : DESTINY SELECTIVE TURF FUNGICIDE

Product code : Article/SKU: 79636954 UVP: 05697270 Specification: 102000012591

Manufacturer or supplier's details

Company : 2022 Environmental Science AU Pty Ltd
ABN 49 656 513 923

Address : Suite 2.06, Level 2, 737 Burwood Road
Hawthorn East, Australia 3123

Telephone : (03) 7019 3839

Emergency telephone number : +61 2 9037 2994

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation.
Contact with dust can cause mechanical irritation or drying of the skin.
May form explosive dust-air mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Water dispersible granules (WG)

Components

Chemical name	CAS-No.	Concentration (% w/w)
Limestone	1317-65-3	>= 30 -< 60

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Iodosulfuron-methyl-sodium	144550-36-7	>= 10 -< 30
Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	>= 10 -< 30
Perlite	93763-70-3	< 10
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts	1258274-08-6	>= 3 -< 10

SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap.
Get medical attention if symptoms occur.
- In case of eye contact : If in eyes, rinse well with water.
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
Contact with dust can cause mechanical irritation or drying of the skin.
Dust contact with the eyes can lead to mechanical irritation.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : There is no specific antidote available.
Initial treatment: symptomatic.
Elimination by dialysis (forced alkaline diuresis).
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours.
However, the application of activated charcoal and sodium sulphate is always advisable.
Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

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.
Do not use a solid water stream as it may scatter and spread fire.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Metal oxides
Nitrogen oxides (NO_x)
Sulphur oxides
Silicon oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

Hazchem Code : 2Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container 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 surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- Technical measures : Static electricity may accumulate and ignite suspended dust causing an explosion.
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not breathe dust.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
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.
Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
- Conditions for safe storage : Keep in properly labelled containers.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Limestone	1317-65-3	TWA	10 mg/m3 (Calcium carbonate)	AU OEL
Perlite	93763-70-3	TWA (Dust)	10 mg/m3	AU OEL

- Engineering measures : Ensure adequate ventilation, especially in confined areas.

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Minimize workplace exposure concentrations.
Apply measures to prevent dust explosions.
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Particulates type

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0.4 mm
Protective index : Class 6

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:
Safety goggles

Skin and body protection : Skin should be washed after contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules

Colour : beige

Odour : characteristic, very faint

Odour Threshold : No data available

pH : 9.5 - 10.5 (23 °C)
Concentration: 1 %
deionised water

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

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.
Burning number	:	Does not catch fire.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Density	:	No data available
Bulk density	:	684 - 803 kg/m ³ Pour density
Solubility(ies) Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	378 °C
Decomposition temperature	:	> 390 °C Heating rate: 10 K/min Decomposition energy (mass): 0.04 kJ/kg
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive Method: OECD Test Guideline 113
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Minimum ignition energy	:	> 100 mJ Method: VDI Guideline 2263 (FRG)

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Particle characteristics
Particle size : 100 - 550 µm
200 - 800 µm
350 - 1,100 µm

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : May form explosive dust-air mixture.
Can react with strong oxidizing agents.

Conditions to avoid : Heat, flames and sparks.
Avoid dust formation.

Incompatible materials : Oxidizing agents
Acids

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Components:**Limestone:**

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on data from similar materials
Acute inhalation toxicity	: LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Iodosulfuron-methyl-sodium:

Acute oral toxicity : LD50 (Rat): 2,678 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 2.81 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Perlite:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Acute oral toxicity : LD50 (Rat, male): 4,470 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Components:**Limestone:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Result : Skin irritation

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Perlite:

Species	: Rabbit
Result	: No skin irritation
Remarks	: Based on data from similar materials

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

Components:**Limestone:**

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405
Remarks	: Based on data from similar materials

Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Result	: Irritation to eyes, reversing within 21 days
--------	--

Perlite:

Species	: Rabbit
Result	: No eye irritation
Remarks	: Based on data from similar materials

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Respiratory sensitisation

Not classified based on available information.

Components:**Limestone:**

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: negative
Remarks	: Based on data from similar materials

Iodosulfuron-methyl-sodium:

Test Type	: Magnusson-Kligman-Test
Exposure routes	: Skin contact
Species	: Rabbit
Method	: OECD Test Guideline 406
Result	: negative

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**Limestone:**

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Iodosulfuron-methyl-sodium:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative

Perlite:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
		Test Type: in vitro micronucleus test Result: negative Remarks: Based on data from similar materials
		Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: in vitro micronucleus test Method: OECD Test Guideline 487 Result: negative

Carcinogenicity

Not classified based on available information.

Components:**Iodosulfuron-methyl-sodium:**

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Perlite:

Species	: Rat, male
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 2 Years
Result	: negative
Remarks	: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:**Limestone:**

Effects on fertility	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Effects on foetal development	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials

Iodosulfuron-methyl-sodium:

Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal development	: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative

Perlite:

Effects on fertility	: Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal development	: Test Type: Embryo-foetal development

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

ment

Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:**Iodosulfuron-methyl-sodium:**

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity**Components:****Limestone:**

Species : Rat
NOAEL : > 300 mg/kg
Application Route : Ingestion
Exposure time : 28 Days
Method : OECD Test Guideline 422
Remarks : Based on data from similar materials

Iodosulfuron-methyl-sodium:

Species : Dog
NOAEL : 7 mg/kg
LOAEL : 42 mg/kg
Application Route : Ingestion
Exposure time : 1 yr

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Perlite:

Species	: Rat
NOAEL	: > 220 mg/kg
Application Route	: Ingestion
Exposure time	: 41 - 55 Days
Remarks	: Based on data from similar materials

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Species	: Rat
NOAEL	: 300 mg/kg
LOAEL	: 1,000 mg/kg
Application Route	: Ingestion
Exposure time	: 29 - 47 Days
Method	: OECD Test Guideline 422

Aspiration toxicity

Not classified based on available information.

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

Toxicity to fish	: LC50 (Cyprinus carpio (Carp)): 117 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 16 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Raphidocelis subcapitata (freshwater green alga)): 0.19 mg/l Exposure time: 72 h

Ecotoxicology Assessment

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

Components:**Limestone:**

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
------------------	--

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

		Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	LL50 (<i>Daphnia magna</i> (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (<i>Desmodesmus subspicatus</i> (green algae)): > 14 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility Based on data from similar materials
		EL10 (<i>Desmodesmus subspicatus</i> (green algae)): > 14 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility Based on data from similar materials
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials

Iodosulfuron-methyl-sodium:

Toxicity to fish	:	LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (<i>Daphnia magna</i> (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (<i>Lemna gibba</i> (gibbous duckweed)): 0.81 µg/l Exposure time: 14 d
Toxicity to fish (Chronic toxicity)	:	NOEC (<i>Oncorhynchus mykiss</i> (rainbow trout)): 7.79 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10 (<i>Daphnia magna</i> (Water flea)): 7.9 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50 (activated sludge): 874 mg/l Exposure time: 3 h

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic effects cannot be excluded

Chronic aquatic toxicity : Toxic effects cannot be excluded

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 35.7 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
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Raphidocelis subcapitata (freshwater green alga)): > 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 6.9 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC10 (activated sludge): 222 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Persistence and degradability**Components:****Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:**

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 60 %
Exposure time: 28 d

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 29 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

II**Bioaccumulative potential****Components:****Iodosulfuron-methyl-sodium:**

Partition coefficient: n-octanol/water : log Pow: -0.7

Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts:

Partition coefficient: n-octanol/water : log Pow: -3.3
Remarks: Calculation

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.
Do not dispose of waste into sewer.

Contaminated packaging : Follow advice on product label and/or leaflet.
Empty containers retain residue and can be dangerous.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Iodosulfuron-methyl-sodium)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Iodosulfuron-methyl-sodium)

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 956

Packing instruction (passenger aircraft) : 956

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Iodosulfuron-methyl-sodium)

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.

National Regulations**ADG**

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Iodosulfuron-methyl-sodium)

Class : 9

Packing group : III

Labels : 9

Hazchem Code : 2Z

Environmentally 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**

Therapeutic Goods (Poisons Standard) Instrument : Schedule 5 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

Active substance : 10 %
Iodosulfuron-methyl-sodium

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date : 06.11.2024

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

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

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 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

DESTINY SELECTIVE TURF FUNGICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2023
2.0	06.11.2024	11270830-00002	Date of first issue: 13.09.2023

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