### **Destiny® Selective Turf Herbicide**

Date of Issue: August 19th, 2009

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Destiny® Selective Turf Herbicide

Product code: AE F115008 00 WDG10 A103

Recommended use: For the post-emergent control of certain broadleaf and grass weeds in turf

**Supplier:** Bayer CropScience Pty Ltd ABN 87 000 226 022 **Address:** 391 - 393 Tooronga Road, East Hawthorn

Victoria 3123, Australia

 Telephone:
 (03) 9248 6888

 Facsimile:
 (03) 9248 6800

 Website:
 www.bayeres.com.au

Contact: Technical Manager (03) 9248 6888

Emergency

**Telephone Number:** 1800 033 111 – Orica SH&E Shared Services

#### 2. HAZARDS IDENTIFICATION

#### NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Will irritate the eyes. Not flammable.

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia

Risk phrases: None

Safety phrases: Not applicable

ADG classification: Not "dangerous goods" for transport by road or rail according to the Australian Code for the

Transport of Dangerous Goods by Road and Rail. For transport by sea this product is a

Class 9, Marine Pollutant. Refer section 14.

SUSDP Schedule 5

classification:

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
lodosulfuron-methyl-sodium	[144550-36-7]	100
Other ingredients	[Non-hazardous]	900

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#### 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

**Inhalation:** Remove patient to fresh air. Keep rested and warm.

When dust is intensively inhaled, seek medical help immediately.

**Skin contact:** Remove contaminated clothing immediately. Wash affected areas thoroughly with soap

and water.

**Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and seek medical

advice.

**Ingestion:** If swallowed, do not induce vomiting. Give a glass of water to drink. Never give anything

by mouth to an unconscious person.

In case of problems, seek medical advice and show the package or label.

**First Aid Facilities:** Provide washing facilities in the workplace.

**Symptoms:** No symptoms are known.

**Medical attention:** Initial treatment should be symptomatic and supportive.

After ingestion, gastric lavage with activated charcoal. Elimination by dialysis (forced alkaline diuresis).

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray, carbon dioxide, foam, dry chemical.

Hazards from combustion products:

In the event of a fire, nitrogen oxides, sulphur oxides and hydrogen iodide can be released.

Precautions for fire fighters:

Fire fighters should wear full protective clothing and self-contained breathing apparatus (AS1716:2000). Do not release contaminated water into drains or the environment.

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### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

#### **Environmental precautions:**

Do not discharge into drains/surface water/groundwater.

# Methods for cleaning up/taking up:

Sweep or preferably vacuum up spillage using equipment fitted with a high efficiency final filter. Send in suitable containers for recovery or disposal at an approved local waste disposal site.

#### 7. HANDLING AND STORAGE

**Handling:** Keep out of reach of children. Provide exhaust ventilation. Observe the usual precautions

for handling chemicals.

**Storage:** Store in the closed original container in a cool, well ventilated area. Do not store for

prolonged periods in direct sunlight.

Do not store together with foodstuffs or animal feeds.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure standards:** No exposure standards have been assigned by Worksafe Australia for the active

ingredient or the excipients in the formulation.

**Engineering controls:** No further measures exceeding those in Section 7 are necessary.

**Personal Protective** Do not inhale dust.

**Equipment:** Wear gloves when handling product.

Observe usual precautions when handling chemicals.

Do not eat, drink or smoke during use. Remove contaminated clothing immediately.

Wash hands, face and gloves thoroughly after handling.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige solid
Odour: Odourless
Vapour pressure: Not applicable
Vapour density: Not applicable
Boiling point: Not applicable
Freezing/melting 164.2°C

point:

**Solubility:** Water – 25g/L at 20°C

Methanol – 12 g/L at 20°C Acetone - > 380 g/L at 20°C

Bulk Density: 740 to 860 g/L

pH: Approx. 10 as 1% suspension in distilled water

Approx. 10 as 10% suspension in distilled water

Flash Point: Not flammable Flammability Not flammable

(explosive) limits:

Auto-ignition Not flammable

temperature:

Octanol/water Not available

partition coefficient:

Formulation: Water dispersible granule

#### 10. STABILITY AND REACTIVITY

**Chemical stability:** Not flammable.

No thermal decomposition until 390°C

Hazardous

**s** No hazardous reactions known.

polymerisation:

Conditions to avoid: None

Incompatible

None

materials:

**Hazardous** No hazardous decomposition products if stored and handled as prescribed.

decomposition products:

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# 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

**Inhalation:** Product should not contain particles of inspirable size

**Skin contact:** Non irritating

**Eye contact:** Will irritate the eyes

**Ingestion:** Product is of low toxicity via the oral route.

Other: None

ANIMAL TOXICITY DATA – PRODUCT

Acute:

Oral toxicity:  $LD_{50}$  rat: > 5000 mg/kg

**Dermal toxicity:**  $LD_{50}$  rat: > 5000 mg/kg

**Inhalation toxicity:** LC<sub>50</sub> rat: > 1.95 mg/L (highest attainable concentration) (4 h)

**Skin irritation:** Non-irritant

**Eye irritation:** Moderate eye irritant

Sensitisation: Non sensitising

**Chronic:** 

Not available.

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# 12. ECOLOGICAL INFORMATION

**Fish toxicity:** LC<sub>50</sub>: 117 mg/L (96 h) common carp (*Cyprinus carpio*)

(Active ingredient)

**Daphnia toxicity:** EC<sub>50</sub>: 12.2 to 22.9 mg/L (48 h)

(Active ingredient)

**Toxicity to algae:** EC<sub>50</sub>: 0.031 mg/L (96 h) (*Pseudokirchneriella subcapitata*)

(Active ingredient)

**Bird toxicity:** Active - Oral LD<sub>50</sub>: > 2000 mg/kg Bobwhite quail, Mallard duck, Japanese quail

(Active ingredient)

Bee toxicity: Oral LD $_{50}$ : > 289.72 μg product/bee (Active ingredient) Contact LD $_{50}$ : > 481 μg product/bee

**Other:** Harmless to following non-target invertebrates:

(Active ingredient) Rove beetle (Aleochara bilineata GYLL)

Predatory mite (*Typhlodromus pyri*)

Cereal aphid parasitoid (Aphidius rhopalosiphi (DESTEFANI-PEREZ))

Environmental fate, persistence and degradation:

Soil  $DT_{50}$  1 – 5 d (7 – 10 d with low soil moisture); degradation is mainly microbial. Low

leaching potential.

#### 13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### 14. TRANSPORT INFORMATION

**UN number:** Not applicable (road/rail)

Proper shipping

name:

Not applicable (road/rail)

Class and Not applicable (road/rail)

**Subsidiary Risk:** 

Packing Group: Not applicable (road/rail)

Hazchem code: Not applicable (road/rail)

Marine Pollutant: Yes – if this product is shipped by sea, it is classified as a Class 9, ENVIRONMENTALLY

HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (iodosulfuron-methyl-sodium), UN 3082,

Packing Group III.

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### 15. REGULATORY INFORMATION

Australian Pesticides and Veterinary Medicines Authority Approval Number: 56801

# 16. OTHER INFORMATION

**Trademark** Destiny<sup>®</sup> is a Registered Trademark of Bayer

information:

Preparation

Replaces August 2004 Edition. Reasons for updates, periodical review. Dangerous Goods

**information:** information updated to reflect Class 9 status.

**Data sources:** Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

**END OF MSDS**