

# MATERIAL SAFETY DATA SHEET

## 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](http://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 classification:** Schedule 5

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Iodosulfuron-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 Equipment:** Do not inhale dust.  
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

<b>Appearance:</b>	Beige solid
<b>Odour:</b>	Odourless
<b>Vapour pressure:</b>	Not applicable
<b>Vapour density:</b>	Not applicable
<b>Boiling point:</b>	Not applicable
<b>Freezing/melting point:</b>	164.2°C
<b>Solubility:</b>	Water – 25g/L at 20°C Methanol – 12 g/L at 20°C Acetone - > 380 g/L at 20°C
<b>Bulk Density:</b>	740 to 860 g/L
<b>pH:</b>	Approx. 10 as 1% suspension in distilled water Approx. 10 as 10% suspension in distilled water
<b>Flash Point:</b>	Not flammable
<b>Flammability (explosive) limits:</b>	Not flammable
<b>Auto-ignition temperature:</b>	Not flammable
<b>Octanol/water partition coefficient:</b>	Not available
<b>Formulation:</b>	Water dispersible granule

### 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Not flammable. No thermal decomposition until 390°C
<b>Hazardous polymerisation:</b>	No hazardous reactions known.
<b>Conditions to avoid:</b>	None
<b>Incompatible materials:</b>	None
<b>Hazardous decomposition products:</b>	No hazardous decomposition products if stored and handled as prescribed.

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### 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

<b>Inhalation:</b>	Product should not contain particles of inspirable size
<b>Skin contact:</b>	Non irritating
<b>Eye contact:</b>	Will irritate the eyes
<b>Ingestion:</b>	Product is of low toxicity via the oral route.
<b>Other:</b>	None

#### ANIMAL TOXICITY DATA – PRODUCT

##### Acute:

<b>Oral toxicity:</b>	LD <sub>50</sub> rat: > 5000 mg/kg
<b>Dermal toxicity:</b>	LD <sub>50</sub> rat: > 5000 mg/kg
<b>Inhalation toxicity:</b>	LC <sub>50</sub> rat: > 1.95 mg/L (highest attainable concentration) (4 h)
<b>Skin irritation:</b>	Non-irritant
<b>Eye irritation:</b>	Moderate eye irritant
<b>Sensitisation:</b>	Non sensitising

##### Chronic:

Not available.

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### 12. ECOLOGICAL INFORMATION

<b>Fish toxicity:</b> (Active ingredient)	LC <sub>50</sub> : 117 mg/L (96 h) common carp ( <i>Cyprinus carpio</i> )
<b>Daphnia toxicity:</b> (Active ingredient)	EC <sub>50</sub> : 12.2 to 22.9 mg/L (48 h)
<b>Toxicity to algae:</b> (Active ingredient)	EC <sub>50</sub> : 0.031 mg/L (96 h) ( <i>Pseudokirchneriella subcapitata</i> )
<b>Bird toxicity:</b> (Active ingredient)	Active - Oral LD <sub>50</sub> : > 2000 mg/kg Bobwhite quail, Mallard duck, Japanese quail
<b>Bee toxicity:</b> (Active ingredient)	Oral LD <sub>50</sub> : > 289.72 µg product/bee Contact LD <sub>50</sub> : > 481 µg product/bee
<b>Other:</b> (Active ingredient)	Harmless to following non-target invertebrates: Rove beetle ( <i>Aleochara bilineata</i> GYLL) Predatory mite ( <i>Typhlodromus pyri</i> ) Cereal aphid parasitoid ( <i>Aphidius rhopalosiphi</i> (DESTEFANI-PEREZ))
<b>Environmental fate, persistence and degradation:</b>	Soil DT <sub>50</sub> 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

<b>UN number:</b>	Not applicable (road/rail)
<b>Proper shipping name:</b>	Not applicable (road/rail)
<b>Class and Subsidiary Risk:</b>	Not applicable (road/rail)
<b>Packing Group:</b>	Not applicable (road/rail)
<b>Hazchem code:</b>	Not applicable (road/rail)
<b>Marine Pollutant:</b>	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 information:** Destiny® is a Registered Trademark of Bayer

**Preparation information:** Replaces August 2004 Edition. Reasons for updates, periodical review. Dangerous Goods 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