

# MATERIAL SAFETY DATA SHEET



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## STATEMENT OF HAZARDOUS NATURE

Not hazardous according to criteria of National Occupational Health and Safety Commission.

## COMPANY DETAILS:

Company: Bayer CropScience Pty Ltd ABN 87 000 226 022  
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Victoria 3123 Australia  
Telephone / Facsimile: (03) 9248 6888 / (03) 9248 6800  
Website Address: [www.bayercropscience.com.au](http://www.bayercropscience.com.au)  
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

## IDENTIFICATION

Product Name:	<b>Bounty<sup>®</sup> Selective Herbicide</b>
Other Names:	None
Manufacturer's Product Code:	Not available
SAP Product Code:	Not available
UN Number:	Not applicable
Dangerous Goods Class and Subsidiary Risk:	Not classified as a dangerous good for transport by road or rail
Hazchem Code:	Not applicable
Proper Shipping Name:	Not applicable
Packing Group:	Not applicable
EPG:	Not applicable
Chemical Family:	Nicotinilide or carboxamide and sulfonyl urea
Poisons Schedule Number:	Exempt
Use:	Herbicide, for weed control in lupins

## Physical Description/Properties

Appearance:	Cream to light brown free-flowing granules with negligible odour
Boiling Point/Melting Point:	Not determined
Vapour Pressure:	Very low
Bulk Density:	0.5 – 0.7 g/mL
Flash Point:	Not applicable
Flammability Limits:	Not determined
Solubility in Water:	Practically insoluble; dispersible

## Other Properties:

pH:	6.0 – 8.0 (1 % dispersion in water)
Formulation:	Water dispersible granule

## Ingredients:

Chemical Name:	CAS Number:	Proportion (g/kg):
Diflufenican	[83164-33-4]	595
Ethametsulfuron-methyl	[97780-06-8]	270
Inert ingredients	(non hazardous)	135

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## HEALTH HAZARD INFORMATION

### Health Effects:

#### *Acute:*

- Swallowed: This product is not expected to be hazardous if swallowed.
- Eye: Overexposure by eye contact may result in slight irritation, tearing or blurred vision. Avoid contact with eyes.
- Skin: Prolonged skin contact may result in slight irritation. Avoid contact with skin.
- Inhaled: May cause slight irritation if inhaled.

#### *Chronic:*

Diffufenican was not mutagenic, teratogenic nor carcinogenic. Ethametsulfuron-methyl was not mutagenic or carcinogenic and did not cause reproductive effects or birth defects in toxicology studies. In animal studies ingestion or inhalation of high doses of ethametsulfuron-methyl produced abnormal kidney function according to laboratory tests.

### First Aid

**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.**

- Swallowed: Wash out mouth with water. DO NOT induce vomiting. Keep patient at rest and seek medical advice as above.
- Eye: Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
- Skin: Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
- Inhaled: If inhaled, remove to fresh air and keep at rest. Obtain medical advice if at all worried.
- First Aid Facilities: Eyewash fountain.
- Advice to Doctor: No symptoms reported. For local contamination treatment should be symptomatic after decontamination. In case of skin or eye contamination, treat as described above under First Aid. For systemic poisoning initial treatment should be symptomatic and supportive. There is no specific antidote. Anticonvulsant therapy is not appropriate. Must not be confused with organophosphorus compounds.

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## PRECAUTIONS FOR USE

**Exposure Standards:** No exposure standard has been assigned by the National Occupational Health and Safety Commission. Bayer CropScience recommends a permissible exposure limit of 2.5 mg/m<sup>3</sup> for diflufenican. The manufacturer of ethametsulfuron-methyl recommends exposure limits of:  
5 mg/m<sup>3</sup>, 8 & 12 hour TWA, respirable dust  
10 mg/m<sup>3</sup>, 8 & 12 hour TWA, total dust

*Definition:* TWA (Time Weighted Average) – Average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

**Engineering Controls:** Control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Ensure adequate ventilation when using this product.

**Personal Protection:** This product has low toxicity and irritant properties.

**Eyes:** Safety goggles may be worn to avoid dust.

**Clothing:** Wear cotton overalls buttoned to neck and wrist, or equivalent clothing

**Gloves:** Elbow-length PVC or nitrile gloves

**Respiratory:** For industrial handling and formulation or if exposure to dust from this product is likely, wear an air-purifying respirator with dust cartridge or canister. In conditions involving heavy exposure to dust, wear a positive pressure air supplied respirator.

**Other:** Wash thoroughly after handling. After each day's use wash gloves, goggles and contaminated clothing.

**Flammability:** This product is not flammable. Under severe dust conditions, it may form explosive mixtures with air.

## SAFE HANDLING INFORMATION

### Storage and

### Transport:

**Corrosivity Hazards:** None known

**Handling & Storage Precautions:** Keep out of reach of children. Avoid contact with eyes and skin. Avoid build-up of dust and avoid breathing dust. Store in the closed, original container in a cool, dry, well-ventilated area, out of direct sunlight.

**Transport:** The product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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## SAFE HANDLING INFORMATION – continued

### Spills and Disposal:

Spillage or Leak Procedures: Avoid contact with spilled material or contaminated surfaces. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing and equipment as detailed in 'Personal Protection' section. Contain spillage. Avoid creating dust by damping down. DO NOT allow product to enter drains or waterways. Shovel or sweep up, and transfer into drums. Seal and label ready for disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

Waste Disposal Methods: 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.

### Fire/Explosion Hazard:

Extinguishing Media: Water spray, foam, carbon dioxide, dry powder or sand.

Special Fire Fighting Procedures: Firefighters should wear full protective equipment including self-contained breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water, as run-off may be a pollution hazard.

Reactivity Hazards: Stable under normal conditions. Avoid oxidising materials. Under severe dust conditions, this material may form explosive mixtures with air. It may give off toxic substances if burnt, such as hydrofluoric acid and oxides of carbon, nitrogen and sulphur.

### OTHER INFORMATION:

Acute toxicity data (diflufenican):	Oral LD <sub>50</sub> (mg/kg)	>2000	Species: Rat
	Dermal LD <sub>50</sub> (mg/kg)	>2000	Species: Rat
	Inhalation LC <sub>50</sub> (mg/L) (4hr)	>2.34*	Species: Rat
	Eye irritation	Non-irritating	Species: Rabbit
	Skin Irritation	Non-irritating	Species: Rabbit
	Sensitising potential	Non-sensitising	Species: Guinea pig

\* No deaths or significant signs were seen at the maximum achievable atmospheric concentration of 2.34 mg/L.

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Acute toxicity data (ethametsulfuron- methyl):	Oral LD <sub>50</sub> (mg/kg)	> 5000	Species: Rat
	Dermal LD <sub>50</sub> (mg/kg)	> 2000	Species: Rabbit
	Inhalation LC <sub>50</sub> (mg/L)	> 5.7 (4hr)	Species: Rat
	Eye irritation	Moderately irritating	Species: Rabbit
	Skin Irritation	Non-irritating	Species: Rabbit
	Sensitising potential	Non-sensitising	Species: Guinea pig

Environmental/  
Ecological Effects: The product is very highly toxic to aquatic plants. DO NOT contaminate streams rivers or waterways with the chemical or used containers.

*Diflufenican:*

Harmful to aquatic life, non-toxic to bees and earthworms.

Aquatic LC<sub>50</sub> rainbow trout 56-100 mg/L (96 hr)

Aquatic LC<sub>50</sub> carp 105 mg/L (96 hr)

Acute oral LD<sub>50</sub> quail > 2150 mg/kg

Acute oral LD<sub>50</sub> mallard duck > 4000 mg/kg

LC<sub>50</sub> Daphnia (48 hr) - no effect at 10 mg/L

*Ethametsulfuron-methyl:*

Very highly toxic to aquatic plants. Moderately toxic to most aquatic fauna, and slightly toxic to daphnia on chronic exposure. Low toxicity to birds, bees and earthworms. Not persistent in soil and water and is of moderate mobility.

Aquatic LC<sub>50</sub> bluegill sunfish and rainbow trout > 600 mg/L (96 hr)

Acute oral LD<sub>50</sub> bobwhite quail and mallard duck > 2250 mg/kg

LC<sub>50</sub> Daphnia (48 hr) 34 mg/L

Special Precautions /  
Comments: None

Data Sources /  
References: Bayer CropScience and Dupont product safety data and published data

**CONTACT POINT:**

Emergency Contact Number 1800 033 111 - Orica SH&E Shared Services  
Development Manager (03) 9248 6888

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.

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