

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	INNOVA DIFLUFENICAN 500 HERBICIDE
Other Names:	Proper shipping name: - Product code: Formulation code A15787A
Recommended Use:	For control of certain weeds in clover-based pasture, field peas, lentils, lupins and oilseed poppy.
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyon Park Road NORTH RYDE NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Not classified as hazardous according to NOHSC criteria
Risk Phrases:	-
Safety Phrases:	-

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE

Chemical Identity of Pure Substance:	Diflufenican
Synonym:	ASF333
CAS Number:	83164-33-4

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (w/v)
Diflufenican	83164-33-4	50
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting, wash mouth out with water.</p> <p>Eye contact: Rinse eyes immediately with plenty of water for 5 minutes.</p> <p>Skin contact: Remove contaminated clothing and wash affected areas with soap and water.</p> <p>Inhalation: If inhaled, remove to fresh air and keep at rest.</p>
Poisoning Symptoms: Medical Advice:	<p>Poisoning symptoms in laboratory animals were non-specific</p> <p>Diflufenican is of low toxicity. There is no antidote. Treat symptomatically,</p>

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide, dry chemical, foam, water fog.
Hazards from Combustion Products:	Oxides of carbon and nitrogen, and hydrogen fluoride may be released in a fire.
Special Protective Precautions and Equipment for Fire Fighters:	<p>The product is likely to decompose only after heating to dryness, followed by further strong heating.</p> <p>In the event of fire, wear self-contained breathing apparatus. Contain water from fire fighting to prevent entry to surface and ground water.</p>
Hazchem Code:	3Z

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	In case of spillage it is important to take all steps necessary to: <ul style="list-style-type: none">• Avoid eye and skin contact.• Avoid contamination of waterways.
Methods and Materials for Containment and Clean Up:	Procedure for spill: <ol style="list-style-type: none">(1) Keep all bystanders away.(2) Wear full length clothing and PVC gloves.(3) Reposition any leaking containers so as to minimise further leakage.(4) Dam and absorb spill with an absorbent material (e.g. sand or soil).(5) Shovel the absorbed spill into drums.(6) Disposal of the absorbed material will depend upon the extent of the spill.<ul style="list-style-type: none">• For quantities up to 50L of product bury in a secure landfill site.• For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.(7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact the eyes and skin. Wash hands after use.
Conditions for Safe Storage:	Keep out of reach of children. Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated
Biological Limit Values:	No biological limit allocated
Engineering Controls:	No special requirements. Product is used outdoors
Personal Protective Equipment:	This product is of low toxicity, however if exposure to large amounts is expected wear: goggles, long sleeved overalls, and elbow length PVC gloves.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A viscous, off white / light brown liquid suspension	Boiling Point/Range:	Approx. 100°C
Odour:	Mild odour	Freezing/Melting Point:	Not available
Vapour Pressure:	4.25 x 10 ⁻³ mPa (diflufenican) at 25°C	Solubility:	Miscible with water
		Specific Gravity or Density:	1.17 g/mL at 20°C

Flash Point:	> 100 °C	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not available	Oxidising Properties:	Not oxidising
Ignition Temperature:	Not available	Combustibility:	Not combustible
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid extreme temperatures
Incompatible Materials:	Strong acids, strong bases, and strong oxidising agents.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, and hydrogen fluoride may be generated in a fire.
Hazardous Reactions:	None known.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:		
Acute:	Oral toxicity:	Low toxicity LD ₅₀ > 2360 mg/kg (similar product, rat)
	Dermal toxicity:	Low toxicity LD ₅₀ > 2360 mg/kg (similar product, rat)
	Inhalation:	Low toxicity LC ₅₀ (4 hours) > 5.12 mg/L (diflufenican, rat)
	Skin irritation:	Non irritant (similar product, rabbit)
	Eye irritation:	Non irritant (similar product, rabbit)
	Sensitisation:	Not sensitising (similar product, guinea pig)
Chronic :	Diflufenican was not mutagenic, carcinogenic or teratogenic and did not show reproductive effects in animal studies.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	This product is harmful to aquatic organisms. Figures are for diflufenican technical: LD ₅₀ quail > 2,150 mg/kg LD ₅₀ mallard duck > 4,000 mg/kg LC ₅₀ (96 hour) rainbow trout: 56 – 100 mg/L LC ₅₀ (96 hour) carp: 105 mg/L LC ₅₀ (48 hour) carp: no effect at 10 mg/L EC50 (96 hours) algae: no growth inhibition at 10 mg/L Bees: non toxic by ingestion or contact
Persistence and Degradability:	Not readily biodegradable
Mobility	Not readily mobile.
Environmental Fate (Exposure):	Stable in water and air. Half life in soils 15 to 30 weeks. Does not bioaccumulate.
Bioaccumulative Potential:	Does not bioaccumulate.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	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 not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.
Special Precautions for Landfill or Incineration:	Not applicable

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT	ADG	Not a dangerous good in Australia	
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Class:	None allocated	Hazchem Code:	3Z
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG		Class 9	
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (diflufenican)	Special Precautions for User:	None
Class:	9	Hazchem Code:	3Z
Subsidiary Risk:	None allocated	Marine Pollutant:	Marine pollutant

AIR TRANSPORT ICAO / IATA		Class 9	
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (diflufenican)	Special Precautions for User:	None
Class:	9	Hazchem Code:	3Z
Subsidiary Risk:	None allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	61647
Poisons Schedule (SUSDP):	Exempt

Section 16: OTHER INFORMATION

Date of preparation or last revision: May 2007

Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited
(02) 8876 8444

24 HOURS EMERGENCY CONTACT: 1800 033 111

This Material Safety Data Sheet 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 SDS 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.

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