

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	INNOVA[®] METSULFURON 600 Herbicide
Recommended Use:	Herbicide for use on winter cereals, commercial and industrial areas, native pastures, rights of way and in grass pastures and pasture renovations
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:	Metsulfuron methyl
Synonym:	-
CAS Number:	74223-64-6

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/w)
Metsulfuron methyl	74223-64-6	60
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 swallowed, seek medical advice immediately. DO NOT induce vomiting</p> <p>Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required</p> <p>Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. Wash contaminated clothing before re-use</p> <p>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poisons Information Centre immediately</p>
Poisoning Symptoms:	<p>Eye contact may cause eye irritation with tearing, pain or blurred vision. Repeated dermal contact may cause skin irritation with itching, burning, redness, swelling or rash. May irritate the throat.</p>
Medical Advice:	<p>There is no specific antidote available. Treat symptomatically.</p>

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	<p>Small fires Use water spray, alcohol-resistant, dry chemical or carbon dioxide.</p> <p>Large fires Use alcohol-resistant foam or water spray DO NOT use a solid water stream as it may scatter and spread fire Cool closed containers exposed to fire with water spray</p>
Hazards from Combustion Products:	<p>Combustion products may be toxic and/or irritating. Take appropriate protective measures. In a fire formation of explosive mixtures in air can be expected.</p>
Special Protective Precautions and Equipment for Fire Fighters:	<p>In the event of fire, wear self-contained breathing apparatus and protective clothing</p>

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:	<p>Procedure for spill</p> <ol style="list-style-type: none"> (1) Keep all bystanders away (2) Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. (3) Re-position any leaking containers so as to minimise further leakage (4) For a product spill: Sweep granule concentrate into a pile. For a prepared spray spill: Dam and absorb spill with an absorbent material (eg 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 50 kg of product bury in a secure landfill site • For quantities greater than 50 kg 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 spill area with detergent and water and rinse with the smallest volume of water practicable.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
Conditions for Safe Storage:	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 for the formulated product Metsulfuron methyl 10 mg/m³ (TWA) (dusts, otherwise not allocated)
Biological Limit Values:	No biological limit allocated
Engineering Controls:	No special requirements. Product is used outdoors
Personal Protective Equipment:	May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white granules	Boiling Point/Range:	Not applicable
Odour:	Odourless	Melting Point:	Not available
pH:	4.3	Solubility:	Highly soluble in water
Vapour Pressure:	Not available	Density:	1.47
Vapour Density:	Not available	Bulk Density:	0.68 g/cm ³

Flash Point:	Not flammable	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	LEL 0.135 g/L	Oxidising Properties:	Not available
Ignition Temperature:	Not available	Combustibility:	Not available
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal storage conditions
Conditions to Avoid:	Keep away from moisture, heat or flame. Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.
Incompatible Materials:	None known
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours
Hazardous Reactions:	None known Hazardous polymerisation does not occur

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:		
Acute:	Oral toxicity:	Low toxicity LD ₅₀ = >5,000 mg/kg (rat)
	Dermal toxicity:	Low toxicity LD ₅₀ = >2,000 mg/kg (rabbit)
	Inhalation:	Low toxicity LC ₅₀ (4 hour) = >5 mg/L (rat)
	Skin irritation:	Non irritant (rabbit)
	Eye irritation:	Non irritant (rabbit)
	Sensitisation:	Non sensitising (guinea pig)
Chronic :	Animal testing indicates that metsulfuron methyl does not have carcinogenic, developmental or reproductive effects. There is a report indicating that metsulfuron methyl produced genetic damage in a mammalian cell culture test, however, other tests with metsulfuron methyl in bacterial and mammalian cell cultures and in animals did not produce genetic damage. The weight of evidence suggests that metsulfuron methyl does not cause genetic damage. Long term administration caused body weight loss.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Toxic to algae EC₅₀ (72 hours) = 0.66 mg/L Algae</p> <p>Low toxicity to fish and Daphnia LC₅₀ (96 hours) = >1,000 mg/L Rainbow Trout, Bluegill Sunfish, <i>Daphnia magna</i></p> <p>Low toxicity to birds LC₅₀ (8 days) = >5,620 mg/kg Bobwhite Quail LC₅₀ (8 days) = >2,510 mg/kg Mallard Duck</p> <p>Low toxicity to bees LD₅₀ = >25 µg/bee</p>
Persistence and Degradability:	<p>Metsulfuron methyl is broken down by chemical hydrolysis and by microbial degradation. DT₅₀ varies from 1 to 5 weeks, with breakdown being more rapid at lower soil pH, higher temperatures and at higher levels of soil moisture.</p>
Bioaccumulative Potential:	<p>Low potential for bioaccumulation</p>

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	<p>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 this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt</p>
Special Precautions for Landfill or Incineration:	<p>Not applicable</p>

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG			
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:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
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:	None allocated
Subsidiary Risk:	None allocated	Marine Pollutant:	Not a marine pollutant

AIR TRANSPORT ICAO / IATA			
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:	None allocated
Subsidiary Risk:	None allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	61500
Poisons Schedule (SUSDP):	Exempt

Section 16: OTHER INFORMATION

Date of preparation or last revision: November 2006

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.