

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	INNOVA TRICLOPYR 600 HERBICIDE
Other Names:	Product code: A16238A
Recommended Use:	Herbicide for the control of a range of woody weeds and Melons in various situations.
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Hazardous according to the criteria of NOHSC Australia
Risk Phrases:	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Triclopyr butoxyethyl ester
Synonym:	ASF418
CAS Number:	64700-56-7

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Triclopyr butoxyethyl ester	64700-56-7	71
Diethylene glycol monoethyl ether	11-90-0	~20%
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

<p>Description of Necessary First Aid Measures:</p>	<p>In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: Take victim immediately to hospital. DO NOT induce vomiting.</p> <p>Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2- minutes and continue flushing for several additional minutes. If effects occur, consult a doctor.</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: Move to fresh air. If effects occur, consult a physician.</p>
<p>Poisoning Symptoms: Medical Advice:</p>	<p>Poisoning symptoms in laboratory animals were non-specific. The decision of whether to induce vomiting or not should be made by a doctor. If lavage is performed, suggest endotracheal and /or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.</p>

Section 5: FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media:</p>	<p>If material is involved in a fire use: water fog, foam, or dry agent. If possible, use foam blanket to contain product. Avoid using AFFF.</p>
<p>Hazards from Combustion Products:</p>	<p>If decomposition of the active ingredient occurs, formation of hazardous decomposition may occur such as carbon dioxide, nitrogen, oxides of nitrogen, oxides of sulfur, hydrogen fluoride gas and fluorides; and if combustion is incomplete then carbon monoxide and smoke. Eruption of containers is likely if confined at high temperatures. Intact containers exposed to excessive heat should be cooled with water to reduce drum pressure.</p>
<p>Special Protective Precautions and Equipment for Fire Fighters:</p>	<p>In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.</p>
<p>Hazchem Code:</p>	<p>2X</p>

Section 6: ACCIDENTAL RELEASE MEASURES

<p>Emergency Procedures:</p>	<p>Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.</p>
<p>Methods and Materials for Containment and Clean Up:</p>	<p>Procedure for spill:</p> <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, sawdust or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - 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: Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing the spray and using the prepared spray, wear:

- cotton overalls buttoned to the neck and wrist
- a washable hat
- rubber gloves

Wash hands after use. After each day's use, wash gloves and contaminated clothing.

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. DO NOT store near food, feedstuffs, fertilisers or seed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated		
Manufacturer's Exposure Standards:	Component Triclopyr	Exposure limit 2 mg/m ³ - skin	Value type -
Biological Limit Values:	No biological limit allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing the spray and using the prepared spray, wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat • rubber gloves Wash hands after use. After each day's use, wash gloves and contaminated clothing.		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear brown liquid	Boiling Point/Range:	Not available
pH:	6.7 (10% v/v water emulsion)	Solubility:	Emulsifiable in water
Vapour Pressure:	3.6×10^{-6} mmHg @ 25°C (triclopyr butoxyethyl ester)	Specific Gravity or Density:	1.20 @ 20°C
Flash Point:	95 °C	Upper and Lower Flammable (Explosive) Limits in Air:	Not available

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	This product is unlikely to spontaneously decompose.
Conditions to Avoid:	Strong oxidising agents.
Incompatible Materials:	Strong oxidising agents.
Hazardous Decomposition Products:	If decomposition of the active ingredient occurs, formation of hazardous decomposition may occur such as carbon dioxide, nitrogen, oxides of nitrogen, oxides of sulfur, hydrogen fluoride gas and fluorides; and if combustion is incomplete then carbon monoxide and smoke.
Hazardous Reactions:	Polymerisation is not known to occur.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:		
Acute:	Oral toxicity:	LD50 (rat) > 2000 mg/kg (similar product). Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury, however swallowing larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting causing lung damage.
	Dermal toxicity:	LD50 (rat) > 2000 mg/kg.
	Inhalation:	If SDS is for product and if studies have not been conducted with the product,
	Skin irritation:	Prolonged and repeated exposure may cause slight irritation.
	Eye irritation:	May cause slight irritation. Corneal injury is unlikely. Dust may irritate eyes. Mist may cause eye irritation.
	Sensitisation:	Prolonged and repeated exposure may cause allergic skin reaction.
Chronic :	For the active ingredient, in animals effects have been reported on the following organs: blood, kidney, and liver. For glycol ethers, in animals effects have been reported in the testes. Triclopyr was not mutagenic, carcinogenic or teratogenic (at less than maternally toxic doses) and did not show reproductive effects in animal studies (at less than maternally toxic doses)	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Based on the active ingredient. LC50 (fish) = 0.36 mg/L EC50 (24 hour) algae = 0.1 mg/L LD50 (bird) = 735 mg/kg
Persistence and Degradability:	Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28/ThOD between 10 and 40%).
Mobility	Ensure consistency with label
Environmental Fate (Exposure):	Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water.
Bioaccumulative Potential:	Bioconcentration potential is moderate (BCF between 1000 and 3000 or Log Pow between 3 and 5). Measured log octanol/water partition coefficient is 4.09.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple, or preferably pressure rinse containers before disposal. Dispose of rinsate by adding to the spray tank. DO NOT dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management site. The cap should not be replaced but may be taken separately. 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:	2X
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG	Is a dangerous good		
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Hazardous Substance, Liquid, N.O.S. (TRICLOPYR BUTOXYETHYL)	Special Precautions for User:	None allocated
Class:	9	Hazchem Code:	2X
Subsidiary Risk:	None allocated	Marine Pollutant:	Yes

AIR TRANSPORT ICAO / IATA	Is a dangerous good		
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Hazardous Substance, Liquid, N.O.S. (TRICLOPYR BUTOXYETHYL)	Special Precautions for User:	None allocated
Class:	9	Hazchem Code:	2X
Subsidiary Risk:	None allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	62154
Poisons Schedule (SUSDP):	Schedule 6 (POISON)

Section 16: OTHER INFORMATION

Date of preparation or last revision: October 2007
Source of Data: The information provided in this SDS is sourced from the manufacturer.
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.