

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	INNOVA CLOPYRALID 300 HERBICIDE
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (clopyralid) Applicable only for marine and air transport Product code: A15784A
Recommended Use:	A broadleaf herbicide for use in cereals, canola, pastures, fallow land, forests and industrial situations
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark 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:	Hazardous according to the criteria of NOHSC Australia
Risk Phrases:	R51/53. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.
Safety Phrases:	S2 (Keep out of reach of children); S24/25 (Avoid contact with skin and eyes); S35 (This material and its container must be disposed of in a safe way)

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE

Chemical Identity of Pure Substance:	Clopyralid
Synonym:	ASF371
CAS Number:	1702-17-6

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (w/v)
Clopyralid, Tri isopropanolamine salt	1702-17-6	~51%,
Other ingredients determined not to be hazardous	-	~49%

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 with water and give some water to drink.</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. If skin irritation persists, call a doctor. 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.</p>
Poisoning Symptoms:	Poisoning symptoms in laboratory animals were non-specific
Medical Advice:	No specific antidote exists. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog, foam, alcohol foam, CO ₂ , dry chemical
Hazards from Combustion Products:	Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Special Protective Precautions and Equipment for Fire Fighters:	In the event of fire, wear self-contained breathing apparatus. Contain water from fire fighting to prevent entry to surface and ground water.
Hazchem Code:	2X

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) 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 L of product bury in a secure landfill site • For quantities greater than 50 L 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 using hydrated lime

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Keep out of reach of children. May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale the spray mist. When preparing the spray wear:</p> <ul style="list-style-type: none"> • elbow-length PVC gloves • face shield <p>After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield.</p>
Conditions for Safe Storage:	Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in 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:	<p>May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale the spray mist. When preparing the spray wear:</p> <ul style="list-style-type: none"> • elbow-length PVC gloves • face shield <p>After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield.</p>

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green/blue liquid	Melting Point:	100 – 105 °C
Odour:	None	Solubility:	Soluble in water
pH:	6-8	Specific Gravity :	1.17 @ 20 °C
Vapour Pressure:	1.2 x 10 ⁻⁵ mmHg @ 25°C (clopyralid)		

Flash Point:	Does not flash	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 standard conditions
Conditions to Avoid:	None known
Incompatible Materials:	Strong acids, strong bases, strong oxidising agents.
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 > 3,738 mg/kg (clopyralid technical, male rat)
	Dermal toxicity:	Low toxicity LD ₅₀ = >2,000 mg/kg (clopyralid technical)
	Inhalation:	Low toxicity LC ₅₀ (4 hours) = >1000 mg/m ³
	Skin irritation:	Moderate irritant
	Eye irritation:	Moderate irritant
	Sensitisation:	Not sensitising
Chronic:	Clopyralid technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of carcinogenic, mutagenic, teratogenic or reproductive effects was obtained.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Figures are for clopyralid technical:</p> <p>LC₅₀ (96 hours) = 103.5 mg/L Rainbow Trout</p> <p>EC₅₀ (48 hours static) = 225 mg/L Daphnia</p> <p>EC₅₀ (96 hours) = 6.9 mg/L Green Algae</p>
Persistence and Degradability:	<p>Clopyralid is hydrolytically stable and photochemical degradation is slow. Clopyralid rapidly degrades to CO₂ in the soil. Degradation is retarded under cold conditions or very dry soil. Clopyralid degrades slowly in water/sediment systems.</p>
Mobility	<p>Clopyralid is slightly mobile</p>
Environmental Fate (Exposure):	-
Bioaccumulative Potential:	-

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		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		Class 9	
UN Number:	3082	Packing Group:	III
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (clopyralid)	Special Precautions for User:	None
Class:	9	Hazchem Code:	2X
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. (clopyralid)	Special Precautions for User:	None
Class:	9	Hazchem Code:	2X
Subsidiary Risk:	None allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	61623
Poisons Schedule (SUSDP):	5

Section 16: OTHER INFORMATION

Date of preparation or last revision: April 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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