

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name:	ACELEPRYN® Turf Insecticide
Design Code:	A16130J
Recommended Use:	For the control of African Black Beetle, Argentine Stem Weevil and other insect pests in Turf
Company Details:	Syngenta Crop Protection Limited
Address:	Tower II, Level 7, 110 Symonds Street Private Bag 92618, Symonds Street AUCKLAND NEW ZEALAND
Telephone number:	(weekdays) 09 - 306 1500
Emergency Telephone number:	(24 Hours) 0800 734 607
National Poisons & Hazchem Information Centre :	0800 POISON (0800 764 766)
Date of Preparation:	02 September 2015

Section 2: HAZARDS IDENTIFICATION

Hazard classification:	9.1A
Priority Identifier:	WARNING ECOTOXIC
Secondary Identifiers:	9.1A = Very toxic to aquatic organisms.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<i>Pure Substance - chlorantraniliprole:</i>	
Chemical Identity of pure substance:	3-Bromo- <i>N</i> -2-methyl-6-(methylcarbomoyl)phenyl]-1-(3-chloro-2-pyridine-2-yl)-1H-pyrazole-5-carboximide
Common Name:	Chlorantraniliprole
Synonyms:	SYN 545170
CAS number:	500008-45-7

<i>Mixture:</i>		
Chemical Identity of ingredients:		
Ingredient	CAS no.	Content (% w/v)
Chlorantraniliprole (technical grade)	500008-45-7	20
Inert Ingredients		To 100

Section 4: FIRST AID MEASURES

Necessary First Aid measures:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
Swallowed:	If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting.
Eye:	If spray solution enters the eyes wash it out immediately with plenty of water. Also wash under eyelids for at 15 minutes. Remove contact lenses. Immediate medical advice is required.
Skin:	If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with running water. Wash contaminated clothing before re-use.
Inhaled:	If inhaled move the victim to fresh air immediately
Poisoning symptoms:	No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.
Workplace facilities:	No specific facilities required. Standard emergency equipment must be available.
Hygiene Practices:	Avoid contact with skin and eyes and inhalation of spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.
Notes for Medical Personnel:	No specific antidote is available. If poisoning is suspected apply symptomatic therapy.

Section 5: FIRE-FIGHTING MEASURES

Type of Hazard:	This product is not flammable.
Fire Hazard Properties:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.
Regulatory Requirements:	not required
Extinguishing Media and methods:	For small fires, use water spray, alcohol resistant foam, dry chemical or carbon dioxide. For large fires, use alcohol resistant foam or water spray. DO NOT use solid water stream as it may scatter and spread fire.
Hazchem Code:	3Z
Recommended Protective Clothing:	Wear full protective clothing and self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
Environmental Precautions:	Washings must be prevented from entering surface water drains or waterways.
Procedure for spill:	<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) 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) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.
Procedure for Disposal:	Disposal of the absorbed material will depend upon the extent of the spill. Contaminated material must be disposed of in accordance with all local authority requirements. It is suggested: <ul style="list-style-type: none">• For quantities up to 50 litres of product bury in a secure approved landfill site.• For quantities greater than 50 litres seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.

Section 7: HANDLING AND STORAGE

Precautions for safe handling:	Handling: No special technical protective measures required. No special handling advice required.
Regulatory Requirements:	Not applicable
Handling practices:	Avoid contact with skin and eyes and inhalation of droplets from concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Approved Handlers:	Approved Handlers required when used in a wide dispersive manner or used by a commercial contractor.

Conditions for Safe Storage:	Storage: Keep out of reach of children. Keep in original containers and tightly closed. Keep away from food, drink and animal feeding stuffs. Store in a cool, dry, well ventilated place and protect from sunlight. Avoid temperatures below minus 5°C or above 35°C.
Store Site Requirements:	Signage and secondary containment will be required at sites holding 100 L or more of any product classified as 9.1A.
Packaging:	Store in original container, tightly closed, away from foodstuffs.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

<i>Workplace Exposure Guidelines:</i>			
Workplace Exposure Standards:	Not required		
Syngenta Exposure Standards:	Component	Exposure Limit	Value type
	Chlorantraniliprole	Total dust 10 mg/m ³	8, 12 h TWA
		Respirable dust 5 mg/m ³	
Application in the workplace:	Not required		
Exposure standards outside the workplace:	Not required		
Engineering controls:	<p>No special requirements. Product is used outdoors. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapors are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.</p> <p>Follow precaution statements on the label and the use and safety directions in Code of Practice for the Management of agrichemical NZS8409.</p>		
Personal Protection:	Use only protective equipment bearing the mark of the Standards Association with Australia/ New Zealand. In case of heavy exposure, wear half face-piece respirator with combined dust and vapour cartridge, chemical resistant gloves and heavy duty cotton overalls.		
General Hygiene:	Change work clothes daily. Avoid contact with eyes and skin. Do not inhale spray mist. If product gets on skin immediately wash area with soap and water. 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:	White semi-viscous liquid
Odour:	Alcohol like
pH:	7.8 at 10 g/L
Flashpoint:	>100°C closed cup
Auto-ignition temperature:	Not flammable
Oxidising properties:	not oxidising
Explosive properties:	not explosive
Density:	1.094 g/cm ³
Viscosity, dynamic:	583 mPa.s

Section 10: STABILITY AND REACTIVITY

Stability of the Substance:	Stable under normal conditions.
Conditions to Avoid:	None known
Material to Avoid:	none known
Hazardous decomposition products	Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed upon combustion.
Hazardous polymerisation	Does not occur
Specific Data	Not applicable

Section 11: TOXICOLOGICAL INFORMATION

HSNO Classifications:

None set

Acute Effects (Undiluted product)

Swallowed:	LD ₅₀	>5000 mg/kg (rat)
Dermal absorption:	LD ₅₀	>5000 mg/kg (rat)
Inhaled:	LC ₅₀ (4 h)	>2 mg/L (rat)
<u>Irritation</u>		
Eye:	NON-IRRITANT (rabbit)	
Skin:	NON-IRRITANT (rabbit)	
<u>Sensitization</u>	NOT A SENSITISER (guinea pigs)	

Chronic / Long Term Effects (Active Ingredient)

Chlorantraniliprole technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of carcinogenic, neurotoxic, mutagenic, teratogenic or reproductive effects was obtained.

Section 12: ENVIRONMENTAL INFORMATION

HSNO Classifications:

9.1A = Very toxic to aquatic organisms.

Environmental Risk and Safety Phrases: Avoid contamination of any water supply with chemical or empty container

The information presented in the table is for the product and active ingredient chlorantraniliprole. It is marked as such. A thorough review of environmental information is not possible in this document.

Ecotoxicity Effects	
Acute toxicity to fish:	Bluegill sunfish (<i>Lepomis macrochirus</i>) LC ₅₀ (96 hours) = 9.9 mg/L (product)
Growth inhibition, Algae:	Green algae (<i>Pseudokirchneriella subcapitata</i>) ErC ₅₀ (72 hours) = >20 mg/L (product)
Toxicity to aquatic Invertebrates:	Water flea (<i>Daphnia magna</i>) EC ₅₀ (48 hours) = 35 µg/L (product)
Toxicity to soil dwelling organisms:	Earthworms (<i>Eisenia foetida</i>) LC ₅₀ (14 days) > 1,000 mg/kg (product)
Toxicity to Birds:	Bobwhite Quail Acute Oral LD ₅₀ = > 2,000 mg/kg (product)
Toxicity to Bees:	Bees (<i>Apis mellifera</i>) EC ₅₀ (2 days) = >0.1 mg/kg (contact) (product) EC ₅₀ (2 days) = >0.1141 mg/kg (oral) (product)

Environmental Fate	
The information presented here is for the active ingredient, chlorantraniliprole .	
Chlorantraniliprole is stable to hydrolysis and is rapidly degraded by photolysis.	
Persistence and Degradability:	Chlorantraniliprole is not readily biodegradable.
Mobility:	Chlorantraniliprole has medium mobility in soil.
Exposure:	Chlorantraniliprole binds to soil
Bioaccumulative Potential:	Chlorantraniliprole is not considered bioaccumulative.

Section 13: DISPOSAL CONSIDERATIONS

Product Disposal:	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container Disposal:	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

Rail / Road (RID/ADR)	UN-No:	3082
	Class:	9
	Packaging Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)
Sea (IMDG-Code)	UN-No:	3082
	Class:	9
	Packaging Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)
Air (ICAO/IATA)	MARINE POLLUTANT:	Yes
	UN-No:	3082
	Class:	9
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)

Section 15: REGULATORY INFORMATION

HSNO Approval Number:	HSR00xxx
HSNO Controls (inc. Tracking and Record Keeping):	See http://www.epa.govt.nz for controls.

Section 16: OTHER INFORMATION

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

CONTACT POINT: Business Manager - Crop Protection: (09) 306 1503
24 HOURS EMERGENCY CONTACT: 0800 734 607

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 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.

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DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.