

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	SPINNER® TURF INSECTICIDE
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (cyantraniliprole and thiamethoxam) Applicable only for marine and air transport
	Product code: A16901B
Recommended Use:	For control of Argentine Stem Weevil larvae, Scarab Beetle larvae and caterpillars (Armyworm and Cutworm) in established turf
Company Details:	Syngenta Australia Pty Ltd 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:	Not classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	—
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Cyantraniliprole
Synonym:	SYN545377
CAS Number:	736994-63-1
Chemical Identity of Pure Substance:	Thiamethoxam
Synonym:	CGA293343
CAS Number:	153719-23-4

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)
Cyantraniliprole	736994-63-1	20
Thiamethoxam	153719-23-4	20
Sodium dibutylphthalenesulphonate	25417-20-3	<10
2,5-furandione, polymer with 2,4,4-trimethylpentene, sodium salt	37199-81-8	<10
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 and show this container or label. 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. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.</p> <p>Inhalation: Move the victim 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>
Medical Advice:	There is no specific antidote available. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	<p><i>Extinguishing media - small fires</i> Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter an spread fire.</p> <p><i>Extinguishing media - large fires</i> Use alcohol resistant foam or water spray. DO NOT use a solid water stream as it may scatter an spread fire.</p>
Hazards from Combustion Products:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health
Special Protective Precautions and Equipment for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus
Further information:	DO NOT allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

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 leakage(4) <i>For a product spill:</i> Sweep spill into a pile. <i>For a prepared spray spill:</i> Dam and absorb spill with an absorbent material (eg sand or soil).(5) Shovel into drums(6) Disposal of the 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. Avoid contact with eyes. When using the product wear: <ul style="list-style-type: none">• cotton overalls buttoned to the neck and wrist (or equivalent clothing) If applying by spraying equipment carried on the back of the user, wear: <ul style="list-style-type: none">• cotton overalls over normal clothing, buttoned to the neck and wrist• elbow-length chemical-resistant gloves Wash hands after use. After each day's use, wash gloves and contaminated clothing.
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

	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
Syngenta exposure standards:	Thiamethoxam	3 mg/m ³	TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	<p>May irritate the eyes. Avoid contact with eyes. When using the product wear:</p> <ul style="list-style-type: none"> cotton overalls buttoned to the neck and wrist (or equivalent clothing) <p>If applying by spraying equipment carried on the back of the user, wear:</p> <ul style="list-style-type: none"> cotton overalls over normal clothing, buttoned to the neck and wrist elbow-length chemical-resistant gloves <p>Wash hands after use. After each day's use, wash gloves and contaminated clothing.</p>		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige to brown granules	Boiling Point/Range:	Not applicable
Odour:	Weak loamy	Freezing/Melting Point:	Not available
pH:	7-11 (1% w/v)	Solubility	Suspensible in water
Vapour Pressure:	Not available	Bulk Density:	0.557 g/mL
Vapour Density:	Not available		

Flash Point:	Not applicable	Flammability	Not highly flammable
Upper and Lower Flammable (Explosive) Limits in Air:	Not available	Explosive Properties:	Not explosive
Auto Ignition Temperature:	230 ± 5°C	Oxidising Properties:	Not oxidising
		Combustibility:	Not available
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under standard conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours
Hazardous Reactions:	None known. Hazardous polymerization does not occur

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:		
Acute:	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product (LD ₅₀ = >5,000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with undiluted product (LD ₅₀ = >5,000 mg/kg)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of undiluted product (LC ₅₀ (4 h) = >5,200 mg/m ³)
	Skin irritation:	NON IRRITANT
	Eye irritation:	SLIGHT IRRITANT
	Sensitisation:	NOT A SENSITISER
Chronic:	Cyantraniliprole	Cyantraniliprole technical has been extensively tested in laboratory animals and test tube systems. No evidence of carcinogenic, teratogenic or mutagenic effects have been obtained.
	Thiamethoxam	Thiamethoxam technical has been extensively tested in laboratory animals and test tube systems. No evidence of mutagenic or teratogenic effects have been obtained. Liver tumours were noted in mice that are not relevant to humans. Did not show neurotoxicity in animal experiments. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<i>Toxicity to fish:</i>	Practically non toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC ₅₀ = >100 mg/L, 96 h
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	Very highly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC ₅₀ = 0.027 mg/L, 48 h (Calculated)
	<i>Toxicity to algae:</i>	Slightly toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E _b C ₅₀ 48 mg/L, 98 h E _r C ₅₀ >100 mg/L, 98 h
	<i>Toxicity to soil dwelling organisms:</i>	Practically non toxic to earthworms Earthworm (<i>Eisenia fetida</i>): LC ₅₀ = >5,000 mg/kg soil, 14 days
	<i>Bees:</i>	Highly toxic to bees
Persistence and Degradability:	<i>Biodegradability:</i>	Cyantraniliprole is not readily biodegradable Thiamethoxam is not readily biodegradable
	<i>Stability in water:</i>	Thiamethoxam degradation half life of 11 days Thiamethoxam is not persistent in water
	<i>Stability in soil:</i>	Thiamethoxam degradation half life 51 days Thiamethoxam is not persistent in soil
Mobility	Cyantraniliprole is not expected to be mobile in soils Thiamethoxam has medium mobility in soil	
Environmental Fate (Exposure):	Cyantraniliprole and its metabolites ultimately degrade to CO ₂ and to non-extractable residues Thiamethoxam is incorporated into C, N, O and H containing organic molecules	
Bioaccumulative Potential:	Cyantraniliprole does not bioaccumulate Thiamethoxam has a low potential for bioaccumulation	

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 deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with Local, State or Territory government regulations. DO NOT burn empty containers or product.
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:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3077	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (cyantraniliprole and thiamethoxam)	Packing Group:	III
Class:	9	Marine Pollutant:	Yes

AIR TRANSPORT IATA-DGR			
UN Number:	3077	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (cyantraniliprole and thiamethoxam)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	66637
Poisons Schedule (SUSDP):	5

Section 16: OTHER INFORMATION

Date of preparation or last revision: March 2014

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 Manager, Syngenta Australia Pty Ltd
(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.

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.

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