

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Cruiser Extreme Insecticide Seed Treatment
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (thiamethoxam) Applicable only for marine and air transport
	Product code: A9765N
Recommended Use:	Insecticide seed treatment to control certain early season sucking and chewing pests
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:	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:	thiamethoxam
Synonym:	CGA293343
CAS Number:	153719-23-4

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (%w/v)
thiamethoxam	153719-23-4	60
styrylphenol-polyethoxyester-phosphate	90093-37-1	1 - 5%
1,2-propanediol	57-55-6	1 - 5%
titanium dioxide	13463-67-7	1 - 5%
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 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 the 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 physician. 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>
<p>Poisoning Symptoms: Medical Advice:</p>	<p>Poisoning symptoms in laboratory animals were non-specific Treat symptomatically.</p>

Section 5: FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media:</p>	<p><i>Extinguishing media - small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. <i>Extinguishing media - large fires</i> Alcohol-resistant foam or water spray.</p>
<p>Hazards from Combustion Products:</p>	<p>As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.</p>
<p>Special Protective Precautions and Equipment for Fire Fighters:</p>	<p>Wear full protective clothing and 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>

Section 6: ACCIDENTAL RELEASE MEASURES

<p>Emergency Procedures:</p>	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways
<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 (eg sand)

<p>or soil)</p> <p>(5) Shovel the absorbed spill into drums</p> <p>(6) Disposal of the absorbed material will depend upon the extent of the spill</p> <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 <p>(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable</p>

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	<p>Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and using the product wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) and • elbow-length PVC gloves. <p>Wash hands after use. After each day's use, wash gloves and contaminated clothing.</p>
Conditions for Safe Storage:	<p>Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.</p>

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>
National Exposure Standards:	1,2-propanediol	10 mg/m ³ Particulates	8h TWA
		150 ppm Total (vapour & particulates) 474 mg/m ³	
	Titanium dioxide	10 mg/m ³	8h TWA
Syngenta Exposure Standards:	Thiamethoxam	3 mg/m ³	8h TWA
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	<p>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.</p> <p>If airborne mists or vapours are generated, use local exhaust ventilation controls.</p> <p>Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.</p> <p>Where necessary, seek additional occupational hygiene advice.</p>		
Personal Protective Equipment:	<p>The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.</p> <p>Personal protective equipment should be certified to appropriate standards.</p> <p>When opening the container and using the product wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) and • elbow-length PVC gloves. 		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige liquid	Vapour Density:	Not known
Odour:	aromatic	Boiling Point/Range:	About 100°C
pH:	7.2 at 1 % w/v (25 °C)	Solubility:	Miscible in water
Vapour Pressure:	6.6 x 10 ⁻⁹ Pa (thiamethoxam)	Specific Gravity or Density:	1.26 g/cm ³

Flash Point:	> 95°C at 748 mmHg	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not known	Oxidising Properties:	Not oxidising
Ignition Temperature:	440°C (auto-ignition)	Combustibility:	Not a combustible liquid
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal 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 polymerisation does not occur.

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:	
Acute:	<p>Oral toxicity: LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. (LD₅₀ >5000 mg/kg)</p> <p>Dermal toxicity: LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with undiluted product. (LD₅₀ >5050 mg/kg)</p> <p>Inhalation: LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of undiluted product. (LC₅₀ (4h) >1.57 mg/L air)</p> <p>Skin irritation: SLIGHT IRRITANT</p> <p>Eye irritation: MINIMAL IRRITANT</p> <p>Sensitisation: NOT A SENSITISER</p>
Chronic:	<p>Thiamethoxam technical has been extensively tested on laboratory mammals and in test-tube systems. The liver and kidney were identified as target organs. No evidence of neurotoxic, mutagenic, teratogenic or reproductive effects was obtained. No carcinogenic potential was noticed in rats. Liver tumours were observed in a carcinogenicity study on mice but occurred at dose levels that interfered with normal liver function and is considered to be related to sustained regenerative cell proliferation related to cell death supported by a phenobarbital-like enzyme induction.</p>

Special studies revealed that thiamethoxam tech. acts as an inducer of metabolising liver enzymes in the mouse. This effect had a clear threshold level and was of a type specific to mice and is not considered relevant to humans.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	<p><i>Toxicity to fish:</i> Practically non toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC₅₀ > 100 mg/L, 96 h Derived from components.</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> Practically non toxic to Daphnia <i>Daphnia magna</i> (Water flea): EC₅₀ >100 mg/L, 48 h Highly toxic to midge <i>Chironomus riparius</i> (midge): EC₅₀ = 121 µg/L, 48 h</p> <p><i>Toxicity to algae:</i> Practically non-toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E_rC₅₀ >100 mg/L, 72 h</p>
Persistence and Degradability:	<p><i>Water</i> Degradation half life: 11 d Thiamethoxam is not persistent in water.</p> <p><i>Soil</i> Degradation half life : 51 d Thiamethoxam is not persistent in soil.</p>
Mobility	Thiamethoxam has medium mobility in soil.
Environmental Fate (Exposure):	Incorporated into C, N, O and H containing organic molecules
Bioaccumulative Potential:	Thiamethoxam has low potential for bioaccumulation.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	<p><i>Non-returnable containers</i> 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> <p><i>Returnable containers</i> Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.</p>
Special Precautions for Landfill or Incineration:	Not applicable

Section 14: TRANSPORT INFORMATION

LAND TRANSPORT ADG		Not dangerous goods 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:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (thiamethoxam)	Packing Group:	III
Class:	9	Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (thiamethoxam)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	Not a registered product. This product may only be used under a valid permit issued by the APVMA.
Poisons Schedule (SUSDP):	5

Section 16: OTHER INFORMATION

Date of preparation or last revision: August 2010

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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