

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	INNOVA[®] TRIADIMENOL 150C Flowable Seed Treatment
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (thiamethoxam) Applicable only for marine and air transport
Recommended Use:	Fungicide plus insecticide seed treatment for use on barley, oats and wheat
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:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R22 Harmful if swallowed R37 Irritating to respiratory system
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of Pure Substance:	Triadimenol	Cypermethrin
Synonym:	—	—
CAS Number:	55219-65-3	52315-07-8

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (%w/v)
Triadimenol	55219-65-3	15
Cypermethrin	52315-07-8	0.4
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. Facial skin contact may cause temporary facial numbness. 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:</p> <p>Medical Advice:</p>	<p>Synthetic pyrethroids can cause eye and skin irritation and temporary facial numbness. The synthetic pyrethroid, cypermethrin, is present at low concentration in this product. Triadimenol is a triazole compound. Symptoms of poisoning have not been recorded.</p> <p>No specific antidote exists. Treat symptomatically. As product contains cypermethrin the following instructions may assist treatment. Irritated skin may be cleaned with cleaning milk. Application of vitamin E or moisturising cream may relieve symptoms. For eyes, instil local anaesthetic drops. Give analgesics as necessary. As the cypermethrin content of this product is only 0.4%, systemic poisoning from this compound is unlikely.</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

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 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 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 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 and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water.
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 official exposure standards have been set for the product or other ingredients of this product.
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:	No specific personal protective equipment required when handling and using this product. Care should be taken to avoid contact with the eyes and skin. 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:	Blue liquid	Vapour Density:	Not known
Odour:	Weak characteristic	Boiling Point/Range:	About 100°C
pH:	4.5 - 6.5	Solubility:	Miscible in water
Vapour Pressure:	6 x 10 ⁻⁷ Pa at 20°C (triadimenol) 2.0 x 10 ⁻⁷ Pa at 20°C (cypermethrin)	Specific Gravity or Density:	1.03-1.07 g/cm ³ at 20°C

Flash Point:	> 100°C	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not available	Oxidising Properties:	Not oxidising
Ignition Temperature:	Not available	Combustibility:	Not a combustible liquid
		Corrosiveness:	Not available

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid high temperatures and direct sunlight. Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.
Incompatible Materials:	Strong acids, bases and 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:	HARMFUL Tests on rats indicate this product is harmful following single doses of active ingredients. LD ₅₀ = 689 mg/kg (triadimenol) LD ₅₀ = 250 - 4150 mg/kg (cypermethrin)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with active ingredients. LD ₅₀ = >5,000 mg/kg (triadimenol) LD ₅₀ = >4,920 mg/kg (cypermethrin)
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of active ingredients. LC ₅₀ = >0.95 mg/L (triadimenol) LC ₅₀ = >2.5 mg/L (cypermethrin)
	Skin irritation:	MODERATE IRRITANT
	Eye irritation:	MODERATE IRRITANT
	Sensitisation:	NOT A SENSITISER

Chronic: Triadimenol and cypermethrin have been extensively tested in laboratory mammals and in test-tube systems. There was no evidence of mutagenic, carcinogenic, teratogenic or reproductive effects.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	<p><i>Toxicity to fish:</i></p> <p>Triadimenol Slightly toxic to fish <i>Lepomis macrochirus</i> (Bluegill sunfish): LC₅₀ = 15 mg/L, 96 h</p> <p>Cypermethrin Very highly toxic to fish <i>Oncorhynchus mykiss</i> (Rainbow trout): LC₅₀ = 0.69 µg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i></p> <p>Triadimenol Slightly toxic to Daphnia <i>Daphnia magna</i> (Water flea): EC₅₀ = 51 mg/L, 48 h</p> <p>Cypermethrin Very highly toxic to Daphnia <i>Daphnia magna</i> (Water flea): EC₅₀ = 0.15 µg/L, 48 h</p> <p><i>Toxicity to algae:</i></p> <p>Triadimenol Slightly toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): E_rC₅₀ = 38 mg/L, 72 h</p>
Persistence and Degradability:	Triadimenol is not persistent in soil or water Cypermethrin is not persistent in soil or water.
Mobility	Triadimenol and cypermethrin have a low potential for mobility due to their rapid degradation.
Environmental Fate (Exposure):	Triadimenol and cypermethrin are degraded rapidly in soil by hydrolytic and oxidative processes.
Bioaccumulative Potential:	Triadimenol has a bioconcentration factor (BCF) of 21 and degrades rapidly in soil. Cypermethrin has a low potential for bioaccumulation as its biological degradation is rapid.

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 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.
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. (cypermethrin)	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. (cypermethrin)	Packing Group:	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	61246
Poisons Schedule (SUSDP):	5

Section 16: OTHER INFORMATION

Date of preparation or last revision: May 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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