


## SAFETY DATA SHEET

### Section 1: Identification: Product identifier and chemical identity

<b>Product Identifier:</b>	<b>TILT 250 EC Systemic Fungicide</b>
<b>Other Means of Identification:</b>	<b>Proper shipping name:</b> Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole) <b>Applicable only for marine and air transport</b>
	<b>Product code:</b> A6097AA
<b>Recommended Use:</b>	Fungicide
<b>Details of manufacturer or importer</b>	<b>Syngenta Australia Pty Ltd</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road</b> <b>MACQUARIE PARK NSW 2113</b> <b>AUSTRALIA</b>
<b>Website:</b>	<b>syngenta.com.au</b>
<b>Phone Number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Phone Number:</b>	<b>24 hours - 1800 033 111</b>

### Section 2: Hazards identification

<b>Classification of the Hazardous Chemical:</b>	Aspiration Hazard – Category 1 Skin irritation – Category 2 Eye irritation – Category 2 Specific organ toxicity – single exposure – Category 3
<b>Signal Word:</b>	Danger
<b>Hazard Statement(s):</b>	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
<b>Precautionary Statement(s):</b>	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/ physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 Do NOT induce vomiting. P501 Dispose of contents/ container to an approved waste disposal plant.
<b>Hazard Symbols:</b>	

### Section 3: Composition and information on ingredients

SUBSTANCE	
<b>Chemical Identity of Pure Substance:</b>	Propiconazole
<b>Synonym:</b>	CGA 64250
<b>CAS Number:</b>	60207-90-1

MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (% w/v)
Propiconazole	60207-90-1	25
Mixture of heavy aromatic hydrocarbons	64742-94-5	>60
Calcium bis(dodecylbenzenesulphonate), branched	26264-06-2	<10
Non-hazardous ingredients	-	to 100

### Section 4: First aid measures

<b>Description of Necessary First Aid Measures:</b>	<p>In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p><b>Ingestion:</b> If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.</p> <p><b>Eye contact:</b> 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><b>Skin contact:</b> 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><b>Inhalation:</b> Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.</p>
<b>Symptoms Caused by Exposure:</b>	Poisoning symptoms in laboratory animals were non-specific
<b>Medical Attention and Special Treatment:</b>	There is no specific antidote available. Treat symptomatically. DO NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

### Section 5: Fire fighting measures

<b>Suitable Extinguishing Equipment:</b>	<p><b>Small fires:</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p><b>Large fires:</b> Alcohol-resistant foam or water spray</p> <p>DO NOT use a solid water stream as it may scatter and spread fire.</p>
<b>Specific Hazards Arising from the Chemical:</b>	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.

<b>Special Protective Equipment and Precautions for Fire Fighters:</b>	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.
--	--

## Section 6: Accidental release measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none"> <li>• Avoid eye and skin contact</li> <li>• Avoid contamination of waterways <ul style="list-style-type: none"> <li>• Wear full length clothing and PVC gloves</li> <li>• Keep all bystanders away</li> </ul> </li> </ul>
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. DO NOT flush into surface water or sanitary sewer system.
<b>Methods and Materials for Containment and Clean Up:</b>	<p><b>Procedure for spill</b></p> <ol style="list-style-type: none"> <li>(1) Keep all bystanders away</li> <li>(2) Wear full length clothing and PVC gloves</li> <li>(3) Reposition any leaking containers so as to minimise further leakage</li> <li>(4) Dam and absorb spill with an absorbent material (eg sand or soil)</li> <li>(5) Shovel the absorbed spill into drums</li> <li>(6) Disposal of the absorbed material will depend upon the extent of the spill <ul style="list-style-type: none"> <li>• For quantities up to 50 L of product bury in a secure landfill site</li> <li>• 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</li> </ul> </li> <li>(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable</li> </ol>

## Section 7: Handling and storage

<b>Precautions for Safe Handling:</b>	<p>Harmful if swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When opening the container and preparing spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• a washable hat</li> <li>• elbow length PVC, nitrile or neoprene gloves</li> <li>• goggles</li> <li>• disposable fume mask covering mouth and nose.</li> </ul> <p>When using the prepared spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• a washable hat</li> <li>• elbow length PVC, nitrile or neoprene gloves</li> <li>• goggles</li> </ul> <p>If product in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use wash gloves, goggles and contaminated clothing.</p>
<b>Conditions for Safe Storage, Including any Incompatibilities:</b>	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 and personal protection

### ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

<b>National Exposure Standards:</b>	No exposure standard allocated		
	<b>Component</b>	<b>Exposure limit</b>	<b>Value type</b>
<b>Syngenta Exposure Standards:</b>	Propiconazole	8 mg/m <sup>3</sup>	8h TWA
<b>Supplier Exposure Standards:</b>	Mixture of heavy aromatic hydrocarbons	100 mg/m <sup>3</sup>	8h TWA
<b>Biological Limit Values:</b>	No biological limits allocated		
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors.		
<b>Personal Protective Equipment:</b>	<p>Harmful if swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When opening the container and preparing spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• a washable hat</li> <li>• elbow length PVC, nitrile or neoprene gloves</li> <li>• goggles</li> <li>• disposable fume mask covering mouth and nose.</li> </ul> <p>When using the prepared spray wear:</p> <ul style="list-style-type: none"> <li>• cotton overalls buttoned to the neck and wrist</li> <li>• a washable hat</li> <li>• elbow length PVC, nitrile or neoprene gloves</li> <li>• goggles</li> </ul> <p>If product in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use wash gloves, goggles and contaminated clothing.</p>		

## Section 9: Physical and chemical properties

<b>Appearance:</b>	Light yellow to yellow liquid	<b>Boiling Point:</b>	Not available
<b>Odour:</b>	Non-specific	<b>Freezing Point:</b>	Not available
<b>pH:</b>	6.5-7.5 at 1% w/v	<b>Solubility:</b>	Miscible
<b>Vapour Pressure:</b>	Not available	<b>Density:</b>	0.96-1 g/cm <sup>3</sup> at 20°C
<b>Vapour Density:</b>	Not available	<b>Viscosity:</b>	<10 cps at 20°C

<b>Flash Point:</b>	>61°C (closed cup method)	<b>Explosive Properties:</b>	Not explosive
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	Not flammable	<b>Oxidising Properties:</b>	Not oxidising
<b>Auto Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Combustible C1
		<b>Corrosiveness:</b>	Not corrosive

## Section 10: Stability and reactivity

<b>Reactivity:</b>	No hazardous reactions by normal handling and storage according to provisions.
<b>Chemical Stability:</b>	The product is stable when used in normal conditions.

<b>Possibility of Hazardous Reactions:</b>	No hazardous reactions by normal handling and storage according to provisions.
<b>Conditions to Avoid:</b>	No decomposition if used as directed.
<b>Incompatible Materials:</b>	No substances are known which lead to the formation of hazardous substances or thermal reactions.
<b>Hazardous Decomposition Products:</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours.

## Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:		
<b>Acute</b>	<b>Oral toxicity:</b>	<p><b>LOW TOXICITY</b> Tests on rats indicate this product has a low toxicity following single doses of a similar formulation. LD<sub>50</sub> &gt; 2,0000 - &lt;3,0000 mg/kg, female LD<sub>50</sub> &gt; 3,0000 mg/kg, male</p>
	<b>Dermal toxicity:</b>	<p><b>LOW TOXICITY</b> Tests on rats indicate this product has a low toxicity following skin contact with a similar formulation. LD<sub>50</sub> &gt;4,000 mg/kg</p>
	<b>Inhalation:</b>	<p><b>LOW TOXICITY</b> Tests on rats indicate this not harmful due to inhalation of a similar formulation. LC<sub>50</sub> estimate &gt; 5.0 mg/L</p>
	<b>Skin irritation:</b>	<b>IRRITANT</b>
	<b>Eye irritation:</b>	<b>IRRITANT</b>
	<b>Sensitisation:</b>	<b>NOT A SENSITISER</b>
<b>Chronic</b>	<p><b>Propiconazole technical</b> has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic teratogenic, neurotoxic or reproductive effects. <b>Mixture of heavy aromatic hydrocarbons</b> may be fatal if swallowed and enters airways.</p>	

## Section 12: Ecological information

<b>Ecotoxicity</b>	The following are based on tests conducted with a similar product	
	<b>Toxicity to fish:</b>	<p><b>Moderately toxic to fish</b> <i>Cyprinus carpio</i> (carp) LC<sub>50</sub> = 11 mg/L <i>Lepomis macrochirus</i> (bluegill sunfish): LC<sub>50</sub> = 6.7 mg/L, 96 h <i>Oncorhynchus mykiss</i> (rainbow trout): LC<sub>50</sub> = 10.3 mg/L 5.7</p>
	<b>Toxicity to daphnia and other aquatic invertebrates:</b>	<p><b>Moderately toxic to aquatic invertebrates</b> <i>Daphnia magna</i> (Water flea): EC<sub>50</sub> = 8.5 mg/L, 48 h 6.9</p>
	<b>Toxicity to algae:</b>	<p><b>Slightly toxic to algae</b> <i>Pseudokirchneriella subcapitata</i> (green algae): ErC<sub>50</sub> = 17 mg/L, 72 h</p>
<b>Persistence and Degradability:</b>	<p>Propiconazole is not readily biodegradable. Propiconazole is stable in water (Degradation half-life: 28 - 64 d). Propiconazole is not persistent in soil (Degradation half-life: 66 - 170 d).</p>	
<b>Mobility in Soil:</b>	Propiconazole has low to medium mobility in soil.	

<b>Bioaccumulative Potential:</b>	Propiconazole has low to medium potential to bioaccumulate.
-----------------------------------	---

### Section 13: Disposal considerations

<b>Disposal Methods:</b>	<p><b>Non-returnable containers:</b> Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. For pineapples, dispose of spent dip in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes. 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><b>Returnable containers:</b> Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
<b>Special Precautions for Incineration or Landfill:</b>	Not applicable

### Section 14: Transport information

<b>LAND TRANSPORT</b> ADG		Not a dangerous good in Australia	
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Transport Hazard Class:</b>	None allocated	<b>Hazchem or Emergency Action Code:</b>	None allocated
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b> IMDG			
<b>UN Number:</b>	3082	<b>Subsidiary Risk:</b>	None allocated
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole)	<b>Packing Group:</b>	III
<b>Transport Hazard Class:</b>	9	<b>Environmental hazards for Transport Purposes:</b>	Marine pollutant

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

## Section 15: Regulatory information

APVMA Product Number: 30490

Poisons Schedule (SUSMP): 6

## Section 16: Any other relevant information

**Date of preparation or last revision:** November 2016

**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 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.