



SAFETY DATA SHEET

AURORA 250 EC FUNGICIDE

Section 1: Identification of the Substance and Supplier

Product name: AURORA 250 EC Fungicide
Chemical name of active Ingredient(s): Propiconazole
1-[(2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl]-1H1,2,4-triazole (CA)
Use: Fungicide
Supplier: ADAMA New Zealand Limited
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O.Box 1799, Nelson New Zealand.
Telephone: +64 3 543 8275 Fax: +64 3 543 8274

Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

Hazard Classifications: 6.1E, 6.9B, 9.1A,

Most important hazards: **WARNING:** Maybe harmful if swallowed, inhaled or absorbed through the skin.
May cause mild skin irritation.
May cause organ damage from repeated oral exposure at high doses.
Avoid skin contact or inhalation
ECOTOXICITY:
Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Section 3. Composition/information on Ingredients

Substance/preparation	Preparation				
Information on hazardous ingredients *					
Common name	CAS No.	Value	EC Number	Symbol	R-Phrases
Propiconazole	060207-90-1	250 g/l	262-104-4	Xn,N	R22, R43,R50-53
caABS/n-Butanol	-	3.5%	-	Xi	R10,R67,R38-41

- **Occupational Exposure Limit(s), if available, are listed in section 8**

Section 4: First-Aid Measures

First-aid measures: Remove victim from area of exposure. Wash off remaining material with plenty of water.

Inhalation: Remove victim to fresh air. Consult a doctor in the event of any complaints.

Ingestion: Do NOT induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Skin contact: Remove contaminated clothing. Wash away remainder with water and Soap. Followed by a warm water rinse. Consult a doctor in the event of any complaints.

Eye contact: Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Consult eye specialist immediately.

Notes to a physician: There is no specific antidote. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

Protection of first-aiders: Use appropriate protection (see section 8).



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Section 5: Fire-Fighting Measures

Extinguishing media

Suitable: Water spray, water fog, foam.

Special Procedures: Fight fires from protected location. Dike fire control water for later disposal.

Special Exposure Hazards: When heated to decomposition, emits dangerous fumes: carbon dioxide, carbon monoxide, chlorides, and nitrogen oxides.

Protection of fire-fighters: Wear proper protective equipment. Self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions: Wear appropriate protective clothing. (see section 8)

Environmental precautions: Dispose of this material and its container at hazardous or special waste collection point, in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.

Methods for cleaning up: In the event of minor spillage. Absorb remainder in sand or other inert material. Use appropriate container to avoid environmental contamination. In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal. Dispose of in an authorised waste collecting point.

Section 7: Handling and Storage

Handling: Keep out of reach of children. Do not breathe fumes. Avoid contact with skin and eyes. Do not eat, drink or smoke while using.

Storage: Store in original, unopened container in cool, dry place, well ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. (< 50°C)

Packaging: Co extruded polyethylene bottles.
Drums with polyethylene liner
Resin-lined metal drums

Section 8: Exposure Controls/Personal Protection

Engineering measures: Ventilation required.

Hygiene measures: When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits:

TLV

Common name: Propiconazole: Not Established

Personal protective equipment:

Respiratory Protection: During spraying wear suitable respiratory equipment.

Skin and body: Wear suitable protective clothing. Chemical resistant boots.

Hands: Chemical resistant gloves.

Eyes: Safety goggles or Chemical goggles.



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Section 9: Physical and Chemical Properties

Physical state:	Liquid
Colour:	Clear - tan
Odour:	Solvent
Molecular weight:	Propiconazole: 342.2
Initial boiling point [°C]:	Propiconazole: Decomposes at elevated temperatures (>300°C)
Density:	0.98 – 1.00 g/ml
Vapour Pressure:	Propiconazole: 2.1 x (10) ⁻⁴ Pa (20°C – pure)
Solubility in water:	Emulsifiable Propiconazole: 150 g/ml (20°C – pure)
Flash point [°C]:	107 (closed cup)
Auto ignition temperature [°C]:	265
pH value:	4-5
Explosive limits:	Not explosive
Log P octanol:	Propiconazole: 3.51

Section 10: Stability and Reactivity

Physico-chemical Stability:	Stable under normal conditions
Hazardous decomposition Products:	Thermal decomposition generates: carbon monoxide, carbon dioxide, Chlorides, nitrogen oxides oxidizing agents.
Hazardous reactions:	Avoid contact with: strong bases and strong acids.
Hazardous Polymerization:	will not occur
Conditions to avoid:	Protect from (sun) light, open flame and sources of heat. Decomposes upon heating.

Section 11. Toxicological Information

Preparation

Acute toxicity - Oral:	LD ₅₀ (rat) >2,000 mg/kg
Acute toxicity - Dermal:	LD ₅₀ (rat) >2,000 mg/kg
Acute toxicity – Inhalation:	LC ₅₀ (rat) 9.46 mg/L/4h
Skin irritation:	Slightly irritating (rabbit).
Eye irritation:	Slightly Irritating (rabbit).
Sensitization:	Non Sensitizer (Guinea-pig)
Carcinogenicity:	Not carcinogenic
Mutagenicity:	Not mutagenic
Reproductive toxicity:	Not teratogenic in animal experiments

Section 12: Ecological Information

Ecological effects information:

96 H-LC50 – fish [mg/l]:	3.72
48 H-EC50 – Daphnia magna [mg/l]:	26
72 H-EC50 Algae [mg/l]:	2.53
LD50 Birds [mg/kg]:	>2,000
Bees LD50 [µg/Bee]:	Not toxic to bees
Persistence and degradability:	Rapidly degrades when exposed to sunlight and UV light
Mobility:	Product does not leach to ground water
Bioaccumulative potential:	BCF < 100



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Section 13: Disposal Considerations

Methods of disposal: Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.

Section 14: Transport Information

UN Number	3082
Proper shipping name	Environmentally hazardous substance, Liquid, N.O.S, (Propiconazole)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	No
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National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval: Registered pursuant to the ACVM Act 1997. No P7252
See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR000597
See www.ermanz.govt.nz for registration conditions.

HSNO Classifications: 6.1E, 6.9.B, 9.1A,



ECOTOXIC

APPROVED HANDLER - This product must be under the care of an approved handler when it is used by a commercial contractor.

RECORD KEEPING - Records of use must be kept under certain circumstances – see The New Zealand Standards for management of Agrichemicals (NZS8409) for details.

Section 16: Other Information

Note: This product is a registered agricultural chemical and must be 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.



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The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

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