



MSDS OF NAADCO TEBUCONAZOLE 430 FUNGICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	NAADCO TEBUCONAZOLE 430 FUNGICIDE
Supplier	New Australia Agricultural Development Company Pty Limited
Address	Unit 1, 17 Powell Street, Killara, Sydney NSW 2071 Australia
Telephone	+61 2 94983675, 0425328311
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Website	www.naadco.com.au

2. HAZARDS IDENTIFICATION

Hazard classification	This product is not classified as hazardous
Risk phrases	Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic.
Safety phrases	See Sections 4, 5, 6, 7, 8, 10, 12, 13

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)
Tebuconazole	107534-96-3	430
Calcium Dodecylbenzene Sulfonate	26264-06-2	100
Xanthan gum	11138-66-2	3.5
Benzoic acid	65-85-0	3
Water	7732-18-5	463.5

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to the doctor.

Inhalation	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Skin contact	Blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). If irritation persists, repeat flushing and obtain medical advice.
Eye contact	Quickly and gently blot or brush product away. Flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or



lasts more than a few minutes.

Ingestion First aid is not generally required. If in doubt contact a Poisons Information Centre or a doctor.

First Aid Facilities Ensure washing facilities are available.

Medical attention *Local contamination:*

Treatment should be symptomatic after decontamination. In case of skin or eye contamination, treat as above under First Aid Measures.

Systemic poisoning:

There is no specific antidote. Treat symptoms. For significant ingestions, an aqueous suspension of activated charcoal may be administered to absorb remaining toxicant.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Preferred extinguishing media are foam, water jet.

Fire Fighting: When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus.

Flash point: Not flammable.

6. ACCIDENTAL RELEASE MEASURES

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses.

Immediately call the Fire Brigade. Wear full protective clothing including eye/face protection. All skin areas should be covered. See above under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains,



advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check

Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this class of poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging – there may be further storage instructions on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits have not been established for any of the significant ingredients in this product. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that

the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White free flowing powder
pH:	5.5 to 8.5
Vapour density:	Not available
Boiling point:	Not available
Freezing/melting point:	Not available
Bulk Density:	0.92g/ml
Flash Point:	Not applicable
Flammability	
(explosive) limits:	Not applicable
Auto-ignition	
temperature:	Not available
Partition coefficient	
(octanol/water):	<i>Tebuconazole</i> : Log P _{ow} = 3.7 at 20° C

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use.
Conditions to avoid	Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Avoid high temperature and fire
Incompatible materials	Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Inhalation	Harmful if inhaled.
Skin contact	Will irritate the skin.
Eye contact	Will irritate the eyes.
Ingestion	Harmful if swallowed.

ANIMAL TOXICITY DATA – *PRODUCT*

Acute:

Oral toxicity	LD ₅₀ rat: 3690(2710~5010) mg/kg (male) LD ₅₀ rat: 2330(1600~3390) mg/kg (female)
Dermal toxicity	LD ₅₀ rat: > 2000 mg/kg
Inhalation toxicity	Not available
Skin irritation	No irritating (rabbit)
Eye irritation	No irritating (rabbit)

12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Ecotoxicity	<i>Tebuconazole</i> :
	Birds: LD ₅₀ Male Japanese quail: 4438mg/kg LD ₅₀ Female Japanese quail: 2912mg/kg LD ₅₀ bobwhite quail: 1988mg/kg
	Fish: LC50 rainbow trout: 6.4mg/L LC50 golden orfe: 8.7mg/L



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Algae: EC50 4.01mg/L

Daphnia: EC50 11.5mg/L

Worms: LD50 (Eisenia foetida) 1.381mg/kg

Environmental fate:

Animals: After three days, elimination is almost complete. Tebuconazole is excreted in urine and faeces.

Plants: In plant tissues, a mean half life of 12 days has been established.

Soil/Environment: Degrades slowly in soil studies conducted in the laboratory. Under field conditions, the compound degraded much more rapidly and did not accumulate in long term (3-5 year) studies. Since no residues could be detected in deeper soil layers of these and other studies, and adsorption/desorption studies indicate low mobility in soil, groundwater contamination through leaching can be excluded. In natural waters, hydrolysis and indirect photolysis occur; in a pond study, the compound dissipated from the water body with a DT50 of 11-3 weeks. Low vapour pressure and strong adsorption result in low volatilisation into the air.

13. DISPOSAL CONSIDERATIONS

When returnable container is empty or contents no longer required return it to the point of purchase. For non-returnable containers, triple or (preferably) pressure rinse them 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. Dispose of waste product via a reputable disposal contractor.

14. TRANSPORT INFORMATION

UN number 3082

Class and Subsidiary Risk 9

Packing Group III

15. REGULATORY INFORMATION

Registered according to the Agricultural Chemicals Act, APVMA Approval Number 64550/0110

16. OTHER INFORMATION

Version 1.0

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