



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL VORLON 500SC FUNGICIDE
Other Names: Thiabendazole, TBZ
Chemical Group: Benzimidazole
CAS No.:
Recommended Use: Fungicide for use on horticultural crops.
Supplier Details: Colin Campbell (Chemicals) Pty Ltd ABN 29 000 045 590
5 Blackfriar Place
Wetherill Park NSW 2164
Telephone: (02) 9725 2544
Fax: (02) 9604 7768
Email: cccsyd@campbellchemicals.com.au
Website: www.campbellchemicals.com.au
Contact: Product Development Manager – (02) 9725 2544
Emergency Telephone Number: 13 11 26 (Poisons Information Centre)

2) HAZARDS IDENTIFICATION

GHS classification: Acute toxicity (inhalation) : Category 4
Aquatic acute toxicity : Category 1
Aquatic chronic toxicity : Category 1
Skin sensitizer: Category 1

Signal Words: No signal word required

Hazard Statements : H317 May cause allergic skin reaction.
H332 Harmful if inhaled.
H400+H4100 Very toxic to aquatic life with long lasting effects.

General Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children
P103 Read label before use.

Pictograms :





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Precautionary statements	P260 Do not breathe dust/fumes/gas/mist/vapours/spray
Prevention:	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product
	P271 Use only outdoors or in a well-ventilated area.
	P272 Contaminated work clothing should not be allowed out of the workplace.
	P273 Avoid release to the environment if this is not the intended use.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Response:	P312 Call a POISON CENTRE/doctor if you feel unwell.
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P391 Collect spillage.
Storage :	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.
Other information :	Non-dangerous goods as defined by ADG.. Hazardous substance. Very toxic to aquatic life with long lasting effects

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Thiabendazole	148-79-8	60-100%
Other ingredients including wetting agents and water	Non hazardous	30-60%

4) FIRST AID MEASURES

**If poisoning occurs, move out of dangerous area immediately contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given.
Show this Material Safety Data Sheet to the doctor.**

If inhaled:	Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a doctor.
In case of skin contact:	Carefully remove contaminated clothing and shoes immediately. Wash affected areas with mild soap and plenty of water. If skin redness or rash occurs, get medical attention. Wash contaminated clothing before reuse.
In case of eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISONS CENTRE /doctor.



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- If swallowed:** Rinse mouth. DO NOT induce vomiting. Call a doctor.
- First Aid facilities** Ensure eye wash and safety shower are available.
- Medical Attention:** Symptoms may be delayed. The first aid procedure should be established in consultation with a doctor responsible for industrial medicine. Persons suffering from a temporary allergic reaction may respond to treatment with oral antihistamines or steroid creams and/or synthetic steroids.

5) FIRE FIGHTING MEASURES

- Extinguishing media** Water fog or mist, carbon dioxide, foam or dry chemical. Cool closed containers exposed to fire with water spray. Do not use solid water stream as it may scatter and spread the fire.
- Hazard from combustion products** In a fire, formation of carbon monoxide, carbon dioxide and nitrogen oxides can be expected.
- Precautions for fighting fires** Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire residues and contaminated fire extinguishing water in accordance with local regulations. Do not release contaminated water into the environment.
- Hazchem Code** 2X

6) ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Ensure adequate ventilation. Contain spill and absorb with earth, sand, clay or other absorbent material. Prevent spilled material from entering drains or watercourses. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc is unavoidable warn the local water authority.

7) HANDLING AND STORAGE

- Handling** Keep out of reach of children. Avoid contact with eyes and skin. Do not inhale spray mist. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.
- Storage** Store in the closed original container in a cool well ventilated area out of sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers.



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8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	No TWA has been established but suggested TWA is 5 mg/m ³ Exposure standard – Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.
Biological Limit Values	None allocated
Engineering Controls	Control process conditions to avoid contact. Use in a well ventilated area only. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.
Personal Protective Equipment	Eyes: Safety goggles. Clothing: Cotton overalls buttoned to the neck and wrists and a washable hat. Gloves: Polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water. Respiratory: If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	White to light beige liquid suspension
Odour:	Slight characteristic
pH:	8.9
Vapour pressure:	Not available.
Vapour density:	Not available
Boiling point:	Not available
Freezing/Melting point:	Not available
Solubility:	Miscible with water
Specific gravity:	1.13 at 20°C
Viscosity:	Not determined
Flash point:	None
Flammability (explosive) limit:	Not applicable
Auto ignition temperature:	Not available
Partition coefficient (octanol/water):	Not available



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10) STABILITY AND REACTIVITY

Chemical stability:	Stable against heat, acid, alkali, and sunlight under normal conditions of use and storage.
Conditions to avoid:	Excessive heat
Incompatible materials :	None known.
Hazardous decomposition products:	In a fire, formation of carbon monoxide, carbon dioxide, hydrochloric acid and nitrogen oxides can be expected.
Hazardous reactions:	Stable under recommended storage conditions. No decomposition if used as directed.

10) TOXICOLOGICAL INFORMATION

Inhalation:	Low acute toxicity
Skin contact:	Minimally irritating (rabbit) but low acute toxicity.
Eye contact:	Non-irritating (rabbit)
Ingestion:	Low acute toxicity.
Chronic toxicity: Germ cell mutagenicity:	Did not show mutagenic effects in animal experiments.
Carcinogenicity:	Did not show carcinogenic effects in animal experiments.
Toxic to reproduction:	Did not show reproductive toxicity effects in animal experiments.
Specific target organ toxicity (repeated exposure):	No adverse effects have been observed in chronic toxicity tests.
Acute toxicity: Oral toxicity:	LD ₅₀ rat >5,000 mg/kg
Dermal toxicity :	LD ₅₀ rat >2,000mg/kg
Inhalation toxicity:	LC ₅₀ (4h) rat >2.63 mg/L air
Sensitisation:	Sensitizer (guinea pig)
Respiratory sensitisation	Not classified as an aspiration hazard.
Specific target organ toxicity (single exposure):	Not classified as a single target organ toxicant, single exposure.



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11) ECOLOGICAL INFORMATION

Very toxic to aquatic organisms with long lasting effects.
DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity: Thiabendazole:

Fish toxicity: LC-50 (96 h)(rainbow trout 0.56 mg/L.

Daphnia toxicity: LC-50 (48 h) 0.31 mg/L

Birds (bobwhite quail) LD50 >2,250ppm

Environmental fate, persistence and degradability, mobility

Persistent in soil. Persistent in water; partitions to sediment. BCF <500 so does not bioaccumulate.. Low mobility in soil.

Identified harmful effects on environment:

This product is a marine pollutant for sea transport. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other precautions:

Do not contaminate dams, waterways or sewers with this product.

12) DISPOSAL CONSIDERATIONS

This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used containers. Triple or preferable pressure rinse containers before disposal. Add rinsings to the mixing tank. Do not dispose of undiluted chemical 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 500mm 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.

13) TRANSPORT INFORMATION

International regulation
UNRTDG

UN Number : 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Thiabendazole)
Class and subsidiary risk: 9
Packing Group: III



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IATA-DGR

UN/ID No.: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Thiabendazole)
Class: 9
Packing group: III
Labels: Miscellaneous

IMDG-Code

UN number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Thiabendazole)
Class: 9
Packing group: III
Marine pollutant: Yes

ADG Code

Not considered as a dangerous good for transport by road or rail in Australia under the Australian Dangerous Goods Code.

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 61789

15) OTHER INFORMATION

Date of revision : 1 December 2016
Reason for revision : Upgrading to GHS format.

This MSDS 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 MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

END OF MSDS