



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2016

#### 1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** VITRA 400WG FUNGICIDE  
**Other Names:** Cupric hydroxide  
**Chemical Group:** Metals  
**CAS No.:**  
**Recommended Use:** A dry flowable fungicide for the control of various diseases of fruit and vegetables.  
**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:** [ccsyd@campbellchemicals.com.au](mailto:ccsyd@campbellchemicals.com.au)  
**Website:** [www.campbellchemicals.com.au](http://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 oral: Category 4  
Carcinogenicity : Category 1  
Acute toxicity inhalation: Category 4  
Hazardous to aquatic environment - Short term/acute : Category 1  
Hazardous to aquatic environment - Short term/Chronic : Category 1

**GHS Signal Words:** WARNING

**Hazard Statements :** H301 : Harmful if swallowed  
H332 : Harmful if inhaled  
H410 : Very toxic to aquatic life with long lasting effects.

**General Precautionary Statements :** P102 : Keep out of reach of children  
P103 : Read label before use.

**Pictograms :**





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**Precautionary statements**

**Prevention:**

P261 : Avoid breathing fumes, mists, vapours or spray.  
P271 : Use only outdoors or in a well-ventilated area.  
P264 : Wash contacted areas thoroughly after handling.  
P270 : Do not eat, drink or smoke when using this product.

**Precautionary statements**

**Response:**

P301 + P312 : IF SWALLOWED : Call a Poisons Information Centre or doctor if you feel unwell.  
P330 : Rinse mouth.  
P304 + P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 : Call a POISONS INFORMATION CENTRE if you feel unwell

**Storage :**

P405 : Store locked up.  
P410 : Protect from sunlight.  
P402 + P404 : Store in a dry place. Store in a closed container.  
P403 + P233 : Store in a well-ventilated place. Keep container tightly closed

**Disposal:**

P391 : Collect spillage  
P501 : Dispose of contents and container as specified on the registered label.

**Other information :**

Dangerous goods.  
Hazardous substance.

### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Copper hydroxide technical	20427-59-2	69.81% (for a technical a.i. having 57.3% copper content)
Other ingredients	Non hazardous	To 100%

### 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 Safety Data Sheet to the doctor.**

**If inhaled:**

If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical advice.

**In case of skin contact:**

Wash gently and thoroughly affected areas with mild soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs.

**In case of eye contact:**

If in eyes, check and remove any contact lenses. Protect unharmed eye. Rinse eyes immediately with clean water for at least 15 minutes. Keep eye wide open while rinsing. Obtain medical advice if irritation occurs.



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<b>If swallowed:</b>	Check breathing. If necessary, give artificial respiration. Keep the patient at rest. Maintain body temperature. If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. If the person is unconscious, lay person on side with the head lower than the rest of the body and semiflexed knees. Request medical attention and show this SDS or the label.
<b>First Aid facilities</b>	Ensure eye wash and safety shower are available.
<b>Medical Attention:</b>	Symptoms may be delayed. Burning pain in the mouth and pharynx, nausea, watery and bloody stools, diarrhoea, decrease in blood pressure. Headache and weakness may occur, proceeding to fainting or unconsciousness. Risk of renal and hepatic alterations. No indication of any immediate medical attention and special treatment needed.

#### 5) FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Not flammable. Use dry chemical or carbon dioxide. Do not use water jet from high flow (due to risk of contamination).
<b>Hazard from combustion products</b>	The major hazard in fires is usually inhalation of heated toxic or oxygen deficient (or both), fire gases.
<b>Precautions for fighting fires</b>	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.
<b>Hazchem Code</b>	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. Do not use water to wash spill area. 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.



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#### 7) HANDLING AND STORAGE

**Handling** Keep out of reach of children. Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. 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. Do not store in direct sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers. Avoid high temperatures and frost.

#### 8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards (diazinon)	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
	Not set.	Not set

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.

**Short Term Exposure Limit (STEL)** means the exposure level that may be equalled (but should not be exceeded for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL.

**Biological Limit Values** None allocated

**Engineering Controls** Control process conditions to avoid contact. Use in a well ventilated area only. If natural ventilation is inadequate, use of a fan is suggested.

**Personal Protective Equipment**

Eyes: Protective glasses or safety goggles with side shields.  
Eye wash bottle with pure water.

Clothing: Impervious 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 full-face respirator should be worn.

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

**Appearance:** Granulated blue product  
**Odour:** Odourless.  
**Vapour pressure:** Not available  
**Relative vapour density:** Not available  
**Evaporation rate:** Not available  
**Boiling point:** Not applicable



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<b>Freezing/Melting point:</b>	Not available
<b>pH:</b>	8-10 at 20°C in 1% suspension
<b>Solubility:</b>	Practically insoluble in water and organic solvents.
<b>Relative density:</b>	0.65 – 0.85 g/m <sup>3</sup> (20°C)
<b>Flash point:</b>	>61°C
<b>Flammability (explosive) limit:</b>	Not available
<b>Auto ignition temperature:</b>	>600°C
<b>Partition coefficient (octanol/water):</b>	No data available.
<b>Viscosity:</b>	Not applicable
<b>Oxidising properties:</b>	No data available.

#### 10) STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use and storage for a minimum of 2 years.
<b>Conditions to avoid:</b>	Moisture and temperatures above 40°C.
<b>Incompatible materials :</b>	Acids and ammonium salts partly dissolve the product.
<b>Hazardous decomposition products:</b>	Copper hydroxide decomposes at temperatures over 140°C, producing water and copper oxide. It does not decompose if stored and applied as directed.
<b>Hazardous reactions:</b>	Not available

#### 11) TOXICOLOGICAL INFORMATION

There is no evidence of symptoms associated with this substance/mixture.

<b>Inhalation:</b>	SHORT TERM EXPOSURE: Low toxicity LONG TERM EXPOSURE – No data for health effects associated with long term inhalation.
<b>Skin contact:</b>	SHORT TERM EXPOSURE: Slightly hazardous. LONG TERM EXPOSURE – No data for health effects associated with long term skin exposure.
<b>Eye contact:</b>	SHORT TERM EXPOSURE: Not an irritant LONG TERM EXPOSURE – No data for health effects associated with long term eye exposure.
<b>Ingestion:</b>	SHORT TERM EXPOSURE: Slightly hazardous. LONG TERM EXPOSURE – No data for health effects associated with long term ingestion.
<b>Chronic toxicity:</b>	Not available



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<b>Germ cell mutagenicity:</b>	Not applicable. Copper is widely present in food, feedstuffs and water.
<b>Carcinogenicity:</b>	Not applicable. Copper is widely present in food, feedstuffs and water.
<b>Organ toxicity :</b>	No data available.
<b>Repeated dose toxicity:</b>	No data available
<b><u>Acute toxicity:</u></b>	
<b>Oral toxicity :</b>	300 <LD <sub>50</sub> >2,000 mg/kg in rats
<b>Dermal toxicity (product as supplied):</b>	LD <sub>50</sub> >2,000 mg/kg in rats (96 hr)
<b>Inhalation toxicity (product as supplied):</b>	LC <sub>50</sub> (4-hr) > 1.043 mg/L in rats
<b>Sensitisation:</b>	Not applicable. Copper is widely present in food, feedstuffs and water.
<b>Irritation:</b>	Not an irritant.
<b>Corrosivity:</b>	No information available
<b>Fate in humans and animals:</b>	Not available

## 12) ECOLOGICAL INFORMATION

Very toxic to fish and aquatic invertebrate, may cause long-term adverse effects to the aquatic environment. This product is biodegradable. It will not accumulate in soil or water or cause long term problems..DO NOT contaminate streams, rivers or waterway with this product or the used containers.

### Ecotoxicity:

Fish toxicity:	
	LC <sub>50</sub> <i>Oncorhynchus mykiss</i> (rainbow trout) : 0.0165mg Cu /L
Aquatic invertebrates:	Not available
Micro-organisms:	Not available
Algae:	Not available
Crustaceans:	Not available
Plants:	Not available
Birds :	Not available
Bees :	Not available

<b>Environmental fate, persistence and degradability, mobility</b>	Copper does not bioaccumulate. Organisms excrete copper naturally. Copper is strongly adsorbed by soils, and it does not degrade. Copper that is added to the soil mainly becomes bound to organic matter. The content of organic matter in the soil and the pH determine the degree of copper availability. Through the strong bonding to various soil components, the leaching out of copper is extremely low. Mobility in soil towards deeper layers is negligible.
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**Identified harmful effects on environment:** 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.

#### 13) 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. Single rinse or shake remainder to the spray tank. Do not dispose of undiluted chemical on-site. 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, in compliance with relevant local, State or Territory government regulations. Empty containers and product should not be burnt.

#### 14) TRANSPORT INFORMATION

**UN No.:** 3077  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains copper)  
**Class:** 9  
**Special provisions :** 274, 331, 601  
**Packing group:** III  
**Packing instruction :** P001, IBC08, LP02, R001  
**Special packing provisions:** VV1  
**Hazard Identification Number:** 90  
**Kemler Code:** 000

#### IMDG

**Marine Pollutant:** Yes  
**UN No.:** 3077  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains copper)  
**Class:** 9  
**EmS Guide: :** F-A, S-F  
**Packing group:** -



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#### IATA

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**Special provisions :** 274, 331, 601  
**Packing group:** -

#### 15) REGULATORY INFORMATION

Poisons Schedule : 6 - POISON  
Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 65926

#### 16) 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 SDS**