



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### MATERIAL SAFETY DATA SHEET

Date of Issue: 1 January 2008

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

**Product Name:** CAMPBELL ZANOCTINE LIQUID FUNGICIDE  
**Other Names:** None  
**Chemical Group:** Group X Fungicide  
**Recommended Use:** Fungicide to control postharvest diseases on citrus and tomatoes.  
**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](mailto:cccsyd@campbellchemicals.com.au)  
**Website:** [www.campbellchemicals.com.au](http://www.campbellchemicals.com.au)  
**Contact:** Product Development Manager – (02) 9725 2544  
**Emergency Telephone Number:** (02) 9725 2544 – 8am to 6pm Monday to Friday.

#### 2) HAZARDS IDENTIFICATION

##### HAZARDOUS SUBSTANCE - DANGEROUS GOOD

**Hazardous classification:** Hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)

**Risk phrases:** R22 – Harmful if swallowed.  
R23 - Toxic by inhalation.  
R36 - Irritating to eyes.

**Safety phrases:** See sections 4,5,6,7,8,10,12,13

**ADG Classification** 6

**SUSDP classification:** 6 (Standard for the Uniform Scheduling of Drugs & Poisons)

#### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Guazatine (as the acetate salt)	115044-19-4	400g/L
Inert ingredients	Non hazardous	to 100%

#### 4) FIRST AID MEASURES

**If poisoning occurs, 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.**

**Inhalation:** If inhaled remove to fresh air and keep at rest. Obtain medical advice.



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#### 4) FIRST AID MEASURES continued

<b>Skin Contact:</b>	Carefully remove contaminated clothing. Wash affected areas with soap and water. Obtain medical advice.
<b>Eye contact:</b>	Check and remove any contact lenses. Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid.
<b>Ingestion:</b>	<p>If swallowed do NOT induce vomiting; seek medical advice immediately and show the container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient..</p> <p>The above first aid directions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of sprat solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about one tablespoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person.</p>
<b>First Aid facilities</b>	Ensure eye wash and safety shower are available. Obtain an emergency supply of atropine tablets 0.6mg.
<b>Medical Attention:</b>	Treat symptomatically.

#### 5) FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Water fog, foam, dry chemical, carbon dioxide (CO <sub>2</sub> )
<b>Hazard from combustion products</b>	The product will not burn. Choose extinguishing media to suit the burning material.
<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 extinguishing agent and spillage safely later. 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. Contain spill and absorb with earth, sand, clay or other absorbent material. Prevent spilled material from entering drains or watercourses.



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#### 6) ACCIDENTAL RELEASE MEASURE *continued*

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. Will irritate eyes. Avoid contact with eyes. 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 protected from frost and heat. Do not store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers.

**Flammability** Not combustible.

#### 8) EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure Standards** No exposure standard has been established for this product.

**Biological Limit Values** None allocated

**Engineering Controls** Use in a well ventilated area only and minimise contact.

**Personal Protective Equipment**

Eyes:	Safety goggles
Clothing:	Cotton overalls buttoned to the neck and wrists.
Gloves:	Elbow length chemical resistant PVC gloves
Respiratory:	Wear suitable respiratory equipment

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

<b>Appearance:</b>	Translucent yellow-orange liquid
<b>Odour:</b>	Vinegar odour.
<b>Vapour pressure:</b>	$<10^{-2}$ mPa at 50°C for guazatine.
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	100°C (water)
<b>Freezing/Melting point:</b>	$< 0^{\circ}\text{C}$ .
<b>pH:</b>	Not available
<b>Solubility:</b>	Soluble in water.
<b>Specific gravity:</b>	1.052 (kg/L) (20°C)
<b>Flash point:</b>	Not flammable
<b>Flammability (explosive) limit:</b>	Not applicable
<b>Auto ignition temperature:</b>	Not applicable
<b>Partition coefficient (octanol/water):</b>	Not available.



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#### 10) STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Hazardous polymerisation is not possible. Avoid excessive heat and fire.
<b>Incompatible materials :</b>	Strong acids and strong bases, organic solvents.
<b>Hazardous decomposition products:</b>	None expected
<b>Hazardous reactions:</b>	Hazardous polymerisation will not occur.

#### 11) TOXICOLOGICAL INFORMATION

Individuals with allergy history should take extra care in handling this product.

<b>Inhalation:</b>	Inhalation may result in irritation to mucous membranes.
<b>Skin contact:</b>	May irritate the skin.
<b>Eye contact:</b>	Prolonged contact with the concentrate may cause damage to the eye.
<b>Ingestion:</b>	May be harmful if ingested .

#### ANIMAL TOXICITY DATA – PRODUCT

##### Acute:

##### **Oral toxicity**

Guazatine acetates:  
LD<sub>50</sub> rat 360mg/kg

##### **Dermal toxicity:**

Guazatine acetates:  
LD<sub>50</sub> rat (percutaneous) >1100mg/kg  
LD<sub>50</sub> rabbit (percutaneous) 1176mg/kg

##### **Inhalation toxicity:**

Guazatine acetates:  
LC<sub>50</sub> (4 hr) rat : >22.42 mg/L air.

##### **Skin irritation:**

Non irritant.

##### **Irritation of mucous membranes:**

No data

##### **Sensitisation:**

Not a skin sensitiser (Guinea pig).

##### Chronic:

Not carcinogenic, not teratogenic in animal experiments.



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#### 12) ECOLOGICAL INFORMATION

Harmful to aquatic organisms and may cause adverse effects in the aquatic environment.  
DO NOT contaminate streams, rivers or waterway with Zanoctine or the used containers.

**Ecotoxicity:**

**Guazatine acetates:**

*Fish toxicity:*

LC<sub>50</sub> (96 h) in rainbow trout 1.41mg/L

*Aquatic invertebrate toxicity:*

LC<sub>50</sub> (48 h) in Daphnia 0.15mg/L

*Algae toxicity:*

No data

*Bird toxicity:*

Pigeons LD<sub>50</sub> 82mg/L (with emetic effect)

*Bee toxicity:*

Not toxic to bees.

**Environmental fate,  
persistence and  
degradability, mobility**

No data

#### 13) DISPOSAL CONSIDERATIONS

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.

#### 14) TRANSPORT INFORMATION

**UN Number:** 2902  
**Proper Shipping name:** PESTICIDES, LIQUID, TOXIC, N.O.S. (contains guazatine)  
**Class and subsidiary risk:** 6.1  
**Packing Group:** II  
**EPG:** 6A5  
**Hazchem code:** 2X

#### 15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth).  
Australian Pesticides and Veterinary Medicines Authority approval number: 54258



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**16) OTHER INFORMATION**

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.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.

**END OF MSDS**