



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL ZANOCTINE FUNGICIDE
Other Names: Guazatine
Chemical Group: Not specified
CAS No.:
Recommended Use: Fungicide for postharvest use on fruit.
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
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 oral : Category 4
Acute toxicity dermal : Category 4
Acute toxicity inhalation: Category 2
Skin corrosion/irritation : Category 2
Eye damage/irritation : Category 1
Single exposure : Category 3

GHS Signal Words: DANGER

Hazard Statements : H302 : Harmful if swallowed.
H312 : Harmful in contact with skin
H330 : Fatal if inhaled
H315 : Causes skin irritation
H318 : Causes serious eye damage
H335 : May cause respiratory irritation

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 :





COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

Precautionary statements	P261 : Avoid breathing fumes, mists, vapours or spray.
Prevention:	P264 : Wash contacted areas thoroughly after handling.
	P270 : Do not eat, drink or smoke when using this product.
	P280 : Use face and eye protection.
Precautionary statements	P304 + P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Response:	P310 : Immediately call a Poisons Information Centre or doctor.
	P301 + P312 : IF SWALLOWED : Call a Poisons Information Centre or doctor if you feel unwell
	P330 : Rinse mouth.
	P302 + P352 : IF ON SKIN : Wash with plenty of soap and water.
	P312 : Call a Poisons Information Centre or a doctor if you feel unwell.
	P332 + P313 : If skin irritation occurs : Get medical attention immediately.
	P362 : Take off contaminated clothing and wash before reuse.
	P305 + P351 + P338 : IF IN EYES : Rinse cautiously with water for several minutes.. Remove contact lenses, if present and easy to do so. Continue rinsing.
	P310 : Immediately call a Poisons Information Centre or doctor.
Storage :	P405 : Store locked up.
	P410 : Protect from sunlight.
	P403 + P233 : Store in a well-ventilated place. Keep container tightly closed
Disposal:	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
Guazatine (as the acetate salt)	115044-19-4	400g/L
Other ingredients	Non hazardous	60-100%

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:	Remove source of contamination or move victim to fresh air and keep at rest. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure. Contact a Poisons Information Centre, or call a doctor.
In case of skin	Wash gently and thoroughly affected areas with mild soap and plenty of water



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

contact:	for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.
In case of eye contact:	Check and remove any contact lenses. Protect unharmed eye. Rinse eyes immediately with clean water for at least 5 minutes. Keep eye wide open while rinsing. Obtain medical advice.
If swallowed:	If swallowed, do NOT induce vomiting. Seek medical advice immediately and show this container or label or contact a Poisons Information Centre. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
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.

5) FIRE FIGHTING MEASURES

Extinguishing media	Not combustible. Water fog, foam, carbon dioxide or dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazard from combustion products	The major hazard in fires is usually inhalation of heated toxic or oxygen deficient (or both), fire gases.
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.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

7) HANDLING AND STORAGE

- Handling** Keep out of reach of children. Will irritate eyes and skin. 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 for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers.

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	TWA (mg/m ³)	STEL (mg/m ³)
	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. 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 respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance: Clear yellow-orange liquid

Odour: Vinegar odour..

Vapour pressure: <10-2 mPa at 50°C for guazatine

Relative vapour density: Not available

Evaporation rate: As for water

Volatile component: 45%

Boiling point: About 100°C at 100 kPa



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

Freezing/Melting point:	Below 0°C
pH:	6.5
Solubility:	Completely soluble in water.
Specific gravity:	1.061 at 20°C
Flash point:	Non flammable
Flammability (explosive) limit:	Non flammable
Auto ignition temperature:	No data available.
Partition coefficient (octanol/water):	No data available.
Viscosity:	No data available
Oxidising properties:	No data available.

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use and storage.
Conditions to avoid:	Excessive heat and fire.
Incompatible materials :	Acids, bases, oxidising agents.
Hazardous decomposition products:	None identified
Hazardous reactions:	Does not polymerise.

10) TOXICOLOGICAL INFORMATION

Inhalation:	May cause irritation to mucous membranes.
Skin contact:	May irritate the skin.
Eye contact:	The product is a severe eye irritant. Prolonged contact with the concentrate may cause damage to the eye..
Ingestion:	The concentrate is harmful if swallowed.
<u>Chronic toxicity:</u>	
Germ cell mutagenicity:	Data indicates no teratogenic effects.
Carcinogenicity:	No significant ingredient is classified as carcinogenic by SWA, NTP or IARC.
<u>Acute toxicity:</u>	
Oral toxicity (active constituent):	LD ₅₀ 308 mg/kg in rats
Dermal toxicity (active constituent):	LD ₅₀ >1000 mg/kg in rat (percutaneous)
Inhalation toxicity:	LC ₅₀ (4-hr) 0.163 mg/L in rats
Sensitisation:	No data



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

11) ECOLOGICAL INFORMATION

Highly toxic to fish and aquatic invertebrate. It is also toxic to wildlife. Treatment of algae and aquatic plants can result in oxygen loss from decomposition of dead algae and plants. This loss can cause fish suffocation. DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity: Guazatine:

Fish toxicity: LC₅₀ *Leponis macrochirus* (bluegill sunfish) : 0.42mg/L

Invertebrates : LC₅₀ (48-hr) (*Daphnia*) : 0.15mg/L

Algae: EC₅₀ (72-hr) for *Raphidocelis subcapitata* 0.0135mg/L

Birds : LD₅₀ pigeons (with emetic effect) : 82mg/kg

Bees : Not toxic.

Environmental fate, persistence and degradability, mobility No data

Identified harmful effects on environment: Highly toxic to fish and aquatic invertebrate.

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

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

ADG

UN No.: 2902

Proper shipping name: PESTICIDE, LIQUID, TOXIC,N.O.S.

Class: 6.1

IERG Number : 34

Packing group: II



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

EPG Number: 6A5
Packing instruction : P001, IBC03, LP01
Hazchem Code : 2X
Packaging Method: 3.8.6

IMDG/IMSBC

UN No.: 2902
IMO Proper shipping name: PESTICIDE, LIQUID, TOXIC,N.O.S. (contains guazatine)
IMO Class: 6.1

Packing group: II
IMO Marine Pollutant: Marine Pollutant

14) REGULATORY INFORMATION

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

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 SDS