



## 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 SYLLIT 400SC FUNGICIDE  
**Other Names:** None  
**Chemical Group:** Guanidine  
**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](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:** R38 – Irritating to skin.  
R41 – Risk of serious damage to eyes.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

**ADG Classification** Class 9

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

#### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Dodine	2439-10-3	40%
Other ingredients including wetting agents and water	Non hazardous	30-60%

#### 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Skin Contact:** Carefully remove contaminated clothing. Wash affected areas with mild soap and water, followed by warm water rinse.



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Date of Issue: 1 January 2008

#### 4) FIRST AID MEASURES continued

<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. Retract eyelids often.
<b>Ingestion:</b>	Wash mouth out with water. Do NOT induce vomiting. Keep patient at rest and seek medical advice. Loosen tight clothing.
<b>First Aid facilities</b>	Ensure eye wash and safety shower are available.
<b>Medical Attention:</b>	Treat symptoms. No specific antidote known.

#### 5) FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Not flammable. Water spray, foam, dry chemical, carbon dioxide (CO <sub>2</sub> )
<b>Hazard from combustion products</b>	In a fire, formation of carbon monoxide, carbon dioxide and nitrogen oxides can be expected.
<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. 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

<b>Handling</b>	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.
<b>Storage</b>	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. Protect from frost.
<b>Flammability</b>	Not flammable.



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#### 8) EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Standards</b>	No exposure standards have been assigned.  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.
<b>Biological Limit Values</b>	None allocated
<b>Engineering Controls</b>	Control process conditions to avoid contact. Use in a well ventilated area only.
<b>Personal Protective Equipment</b>	Eyes: Safety goggles Clothing: Cotton overalls buttoned to the neck and wrists and a washable hat. Gloves: Elbow length chemical resistant PVC gloves Respiratory: If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn..

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

<b>Appearance:</b>	White viscous liquid
<b>Odour:</b>	Negligible
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	>100°C
<b>Freezing/Melting point:</b>	Not available
<b>pH:</b>	5.8
<b>Solubility:</b>	Disperses in water
<b>Specific gravity:</b>	1.01
<b>Flash point:</b>	Not available
<b>Flammability (explosive) limit:</b>	Not available
<b>Auto ignition temperature:</b>	430°C
<b>Partition coefficient (octanol/water):</b>	Dodine : $\log P_{ow} = 0.96$ at 20°C

#### 10) STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Excessive heat
<b>Incompatible materials :</b>	Oxidising agents, Strong acids, alkalis, finely divided metals.



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#### 10) STABILITY AND REACTIVITY continued

**Hazardous decomposition products:** In a fire, formation of carbon monoxide, carbon dioxide and nitrogen oxides can be expected.

**Hazardous reactions:** Avoid contact with : Oxidising agents, Strong acids, alkalis, finely divided metals.

#### 11) TOXICOLOGICAL INFORMATION

**Inhalation:** Inhalation of vapours can cause respiratory irritation. Sore throat. Chest pain. Danger of serious damage to health by exposure through inhalation.

**Skin contact:** Repeated or prolonged skin contact may cause irritation. May cause skin to become dry or cracked.

**Eye contact:** Redness, pain, tears, blurred vision, burning sensation, risk of serious damage to eyes.

**Ingestion:** Abdominal pain, nausea. Swallowing a small quantity of this material presents some health hazard.

#### ANIMAL TOXICITY DATA – PRODUCT

**Acute:**

**Oral toxicity** LD<sub>50</sub> rat 851mg/kg

**Dermal toxicity:** LD<sub>50</sub> rat (percutaneous) >5000mg/kg

**Inhalation toxicity:** LC<sub>50</sub> rat (4 hr) 0.45mg/L

**Skin irritation:** May cause irritation

**Irritation of mucous membranes:** No data

**Sensitisation:** No data

**Chronic:**

No data.

#### 12) ECOLOGICAL INFORMATION

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

**Ecotoxicity: Dodine:**  
Fish toxicity: LC-50 (48 hr) harlequin fish – 0.53mg/L. Highly toxic.



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#### 12) ECOLOGICAL INFORMATION *continued*

<b>Ecotoxicity (continued):</b>	<b>Dodine:</b> Bird toxicity: Acute oral JD-50 (mallard ducks) = 1142mg/kg. Slightly toxic. LD-50 (honey bees) > 11mg/kg. Non-toxic by topical application.
<b>Environmental fate, persistence and degradability, mobility</b>	Low persistence in soil with halflife is about 20 days. Binds strongly to soil so is unlikely to contaminate groundwater.  No data for breakdown in water or soil.

#### 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

<b>UN Number:</b>	3082
<b>Proper Shipping name:</b>	Environmentally hazardous substance, liquid, N.O.S.
<b>Class and subsidiary risk:</b>	9
<b>Packing Group:</b>	III
<b>EPG:</b>	
<b>Hazchem code:</b>	2X

#### 15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 54058

#### 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**