



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL SYLLIT 400SC FUNGICIDE
Other Names: Dodine
Chemical Group: Guanidine
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: (02) 9725 2544 – 8am to 6pm Monday to Friday.

2) HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE - DANGEROUS GOOD. According to the WHS Regulations and the ADG Code.

Hazard Ratings :

Flammable liquids : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/irritation: Category 2A

GHS Signal Words: WARNING

Hazard Statements : H227 : Combustible liquid
H315 : Causes skin irritation
H319 : Causes serious eye irritation.

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

Pictograms :





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Precautionary statements	P210 : Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Prevention:	P264 : Wash skin thoroughly after handling. P280 : Wear protective gloves/eye protection/face protection.
Precautionary statements	P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.
Response:	P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 : If skin irritation occurs: Get medical advice/attention. P337 + P313 : If eye irritation occurs: Get medical advice/attention P362 : Take off contaminated clothing and wash before reuse. P370 + P378 : In case of fire : Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Other information:	Very toxic to aquatic life with long lasting effects. Dangerous goods. Hazardous substance.

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 Safety Data Sheet to the doctor.

Inhalation:	If inhaled remove to fresh air and keep at rest. If not breathing, give artificial respiration.
Skin Contact:	Carefully remove contaminated clothing. Wash affected areas with mild soap and water, followed by warm water rinse. If symptoms persist, call a doctor.
Eye contact:	Check and remove any contact lenses. Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid. Retract eyelids often. If symptoms persist, call a doctor.
Ingestion:	Wash mouth out with water and afterwards drink plenty of water. Do NOT give milk or alcoholic beverages. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Keep patient at rest and seek medical advice. Loosen tight clothing.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Treat symptoms. The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.



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5) FIRE FIGHTING MEASURES

- Extinguishing media** Use extinguishing media that are appropriate to local circumstances and the surrounding environment.
- 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 extinguishing agent and spillage safely later. 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. 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. 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.
- Flammability** Combustible

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	TWA (mg/m ³)	STEL (mg/m ³)
	Not set	Not set

Exposure limits have not been established by SWA for any of the significant ingredients in this product.



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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.
Personal Protective Equipment	Eyes: Safety goggles. Eye wash bottle with pure water. Clothing: Impervious clothing buttoned to the neck and wrists and a washable hat. Gloves: Elbow length chemical resistant PVC gloves. Before removing gloves, wash them with soap and water Respiratory: If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.
Personal hygiene :	

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	White opaque viscous liquid
Odour:	Mild
Vapour pressure:	Not available
Vapour density:	Not available
Boiling point:	Not available
Freezing/Melting point:	Not available
pH:	6.1
Solubility:	Disperses in water
Specific gravity:	1.015 at 20°C
Flash point:	Not available
Flammability (explosive) limit:	Not available
Viscosity, dynamic:	800 mPa.s at 20°C
Partition coefficient (octanol/water):	Dodine : $\log P_{ow} = 0.96$ at 20°C

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	No data available
Incompatible materials :	None known.



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

Hazardous reactions: Stable under recommended storage conditions.
No decomposition if used as directed.

10) TOXICOLOGICAL INFORMATION

Inhalation: No data available.

Skin contact: May cause irritation to the skin.

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

Ingestion: No data available

ANIMAL TOXICITY DATA – PRODUCT

Acute:

Oral toxicity LD₅₀ rat >2,000mg/kg

Dermal toxicity: LD₅₀ rat >2,000mg/kg

Inhalation toxicity: Not applicable

Skin irritation: May cause irritation in susceptible persons.

Irritation of mucous membranes: No data

Sensitisation: No data

Chronic:

No data.

11) 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:

Toxicity to fish :

LC₅₀ (48 hr) (Harlequin rasbora) harlequin fish 0.53mg/L

Toxicity to birds :

LD₅₀ (Anas platyrhynchos) Mallard duck 1,142 mg/kg

LD₅₀ (Apis mellifera) bees >11mg/kg Non-toxic by topical application.

Product:

Fish toxicity:

LC₅₀ (96 hr) *Cyprinus carpio* (carp) – 0.6mg/L. Highly toxic.

Daphnia and other aquatic invertebrates :



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EC₅₀ (48 hr) (*Daphnia magna*) 18mg/L - flow through test
EC₅₀ (48 hr) (*Daphnia magna*) 146mg/L - static test
Toxicity to algae :
ErC₅₀ (120 hr) (*Scenedesmus capricornutum* (fresh water algae) 2.8mg/L

Environmental fate, persistence and degradability, mobility Biodegradability : Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.
Mobility in soil : No data available
Bioaccumulative potential : No data available.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Identified harmful effects on environment: This product is a marine pollutant for sea transport.

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

12) 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.

13) TRANSPORT INFORMATION

UNRTDG

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

IATA-DGR

UN/ID No.: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Environmentally hazardous substance, liquid,n.o.s. (dodine)
Class: 9
Packing group: III



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Labels: Miscellaneous
Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964

IMDG-Code

UN number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dodine)
Class: 9
Packing group: III
Labels: 9
EmS Code: F-A,S-F
Marine pollutant: Yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

ADG

UN number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dodine)
Class: 9
Packing group: III
Labels: 9
Hazchem code:
Remarks: SP No. AU01 Environmentally Hazardous Substances meeting the descriptions of UN3077 or UN3082 are not subject to this code when transported by road or rail in:
(a) Packagings that do not incorporate a receptacle exceeding 500kg(L); or
(b) (b) IBCs.

14) REGULATORY INFORMATION

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

15) OTHER INFORMATION

Date of revision :
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