



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2016

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

**Product Name:** **INNOSULPH 800WG FUNGICIDE AND MITICIDE**  
**Other Names:**  
**Chemical Group:** Sulphur  
**CAS No.:** 7704-34-9  
**Recommended Use:** Fungicide and miticide for 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:** 13 11 26 (Poisons Information Centre)

#### 2) HAZARDS IDENTIFICATION

This product is classified as : Xi, Irritating. Hazardous according to the criteria of SWA.

**GHS classification:** Skin irritation : Category 2

**GHS Signal Words:** WARNING

**Hazard Statements :** H315 : Causes skin irritation.

**General Precautionary Statements :** P102 Keep out of reach of children

**Pictograms :** None required

**Precautionary statements Prevention:** P270 Do not eat, drink or smoke when using this product.  
SP1 : Do not contaminate water with the product or its container. (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads.

**Precautionary statements Response:** No specific precautionary statements required



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2016

**Storage :** No specific precautionary statements required

**Disposal:** No specific precautionary statements required

**Other information :** Non-dangerous and non-hazardous goods as defined by WHS.

#### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Sulphur	7704-34-9	80%

#### 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:** Move to fresh air and keep at rest in a position comfortable for breathing. If necessary, call a doctor.

**In case of skin contact:** Carefully remove contaminated clothing and shoes immediately. Wash affected areas with mild soap and plenty of water.

**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing cautiously for several minutes. If eye irritation persists, call a doctor.

**If swallowed:** Rinse mouth and afterwards drink plenty of water in small sips (dilution effect). DO NOT induce vomiting. Call a doctor. Swallowing of the product can cause flatulence and diarrhoea.

**First Aid facilities** Ensure eye wash and safety shower are available.

**Medical Attention:** No information on symptoms. The first aid procedure should be established in consultation with a doctor responsible for industrial medicine.

#### 5) FIRE FIGHTING MEASURES

**Extinguishing media** Water fog or mist, carbon dioxide, foam or dry chemical. Do not use compact water jet due to risk of steam explosion.

**Hazard from combustion products** In a fire, formation of sulphur dioxide can be expected.



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2016

<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>	Not established

#### 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.

#### 7) HANDLING AND STORAGE

<b>Handling</b>	Keep out of reach of children. Dust explosion possible. Keep away from electrical appliances, open flames, any source of heat and sparks. No smoking or welding in the working area. Use equipment with electrical ground connection. When using do not eat, drink or smoke. 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 tightly closed original container in a cool well ventilated area out of sunlight. Do not reuse empty container. Do not store with food, feed or other materials to be used or consumed by humans and animals.

#### 8) EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Standards</b>	No TWA has been established. 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. Avoid development of dust. Use in a well ventilated area only. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2016

<b>Personal</b>	Eyes:	Safety goggles. Eye wash bottle with pure water.
<b>Protective</b>	Clothing:	Impervious overalls buttoned to the neck and wrists.
<b>Equipment</b>	Gloves:	Polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water.
	Respiratory:	Not necessary unless adequate ventilation is inadequate. If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

<b>Appearance:</b>	Brown microgranules.
<b>Odour:</b>	Ligneous, sweet
<b>pH:</b>	5-7 as 10g/L water at 20°C
<b>Vapour pressure (active constituent):</b>	9.8 x 10 <sup>-5</sup> Pa at 20°C
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	445°C
<b>Melting point:</b>	119°C
<b>Solubility:</b>	Disperses in water.
<b>Bulk density (formulation):</b>	850-950 g/L at 20°C
<b>Viscosity:</b>	Not applicable
<b>Flash point of molten sulphur:</b>	207°C
<b>Flammability (explosive) limit:</b>	Dust at 250°C
<b>Explosion risk:</b>	Dust explosion possible as from 30g/m <sup>3</sup> air
<b>Auto ignition temperature:</b>	Not applicable
<b>Partition coefficient (octanol/water):</b>	Log P <sub>ow</sub> 5.68 at 20°C

#### 10) STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use and storage.
<b>Conditions to avoid:</b>	Dust explosion possible.
<b>Incompatible materials :</b>	With chlorates, nitrates, perchlorates and permanganates, product forms explosive mixtures especially susceptible to shock. Unstable in contact with strong oxidising agents, copper and copper oxides.
<b>Hazardous decomposition products:</b>	In a fire, formation of sulphur dioxide can be expected. Otherwise does not decompose when used for intended purposes.
<b>Hazardous reactions:</b>	Stable under recommended storage conditions. No decomposition if used as directed.



SAFETY DATA SHEET

Date of Issue: 1 December 2016

**10) TOXICOLOGICAL INFORMATION**

<b>Inhalation:</b>	Non-irritating.
<b>Skin contact:</b>	Non-irritating (OECD No. 404)
<b>Eye contact:</b>	Non-irritating (OECD No. 405)
<b>Ingestion:</b>	No data available.
<b>Chronic toxicity:</b>	
<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	None.
<b>Toxic to reproduction:</b>	None
<b>Specific target organ toxicity (repeated exposure):</b>	None
<b>Acute toxicity:</b>	
<b>Oral toxicity:</b>	LD50 (rat) >5,000 mg/kg.
<b>Dermal toxicity :</b>	LD50 (rat) >2,000 mg/kg
<b>Inhalation toxicity:</b>	LC <sub>50</sub> 5,434mg/L (rat). This is the maximum attainable concentration with a MMAD in the target range (1-4 micron)
<b>Sensitisation:</b>	Non-sensitising (OECD No. 406)
<b>Respiratory sensitisation</b>	No data available
<b>Specific target organ toxicity (single exposure):</b>	No data available.

**11) ECOLOGICAL INFORMATION**

DO NOT contaminate streams, rivers or waterway with this product or the used containers.

<b>Ecotoxicity:</b>	Acute toxicity to fish: LC <sub>50</sub> (96 hr) rainbow trout <i>Oncorhynchus mykiss</i> >5,000 mg/L
	Acute toxicity to Daphnia : EC <sub>50</sub> (48 hr) >1,000 mg/L
	Acute toxicity to algae: EC <sub>50</sub> (72 hr) <i>Ankistrodesmus bibraianus</i> >290 mg/L
	Chronic toxicity to fish: LC <sub>50</sub> (28 d) rainbow trout <i>Oncorhynchus mykiss</i> >100 mg/L
	Chronic toxicity to Daphnia : EC <sub>50</sub> (21 d) >1,000 mg/L



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### SAFETY DATA SHEET

Date of Issue: 1 December 2016

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Toxicity to bees:  
Not toxic  
Toxicity to earthworms :  
Not toxic.

<b>Environmental fate, persistence and degradability, mobility</b>	Oxidation to sulphate which occurs naturally in soils and ground water (DT <sub>50</sub> = 28d). Sulphur is not water-soluble and for this reason has low mobility in soils.
<b>Identified harmful effects on environment:</b>	Degradation products sulphur dioxide and sulphurous acid : 1 mg/L lethal to fish
<b>Other precautions:</b>	Do not contaminate dams, waterways or sewers with this product or used containers.

#### 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. Do not dispose of undiluted chemical on-site. 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. Combustion possible in suitable incineration plants (flue gas desulphurisation)

#### 13) TRANSPORT INFORMATION

##### International regulation

<b>UNRTDG</b>	Not regulated as a dangerous good.
<b>IATA-DGR</b>	Not regulated as a dangerous good
<b>IMDG-Code</b>	Not regulated as a dangerous good.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :</b>	Not applicable for product as supplied.

##### National Regulations

###### ADG Code

Not considered as a dangerous good for transport by road or rail in Australia under the Australian Dangerous Goods Code.



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**SAFETY DATA SHEET**

Date of Issue: 1 December 2016

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**14) REGULATORY INFORMATION**

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number 67383

**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**