



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### MATERIAL SAFETY DATA SHEET

Date of Issue: 1 June 2008

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

**Product Name:** **CAMPBELL CHEERS 720 WEATHERSHIELD FUNGICIDE**

**Other Names:** None

**Chemical Group:** Chloronitrile

**Recommended Use:** Fungicide for use on horticultural crops.

**Supplier Details:** Colin Campbell (Chemicals) Pty Ltd ABN 29 000 045 590  
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**Contact:** Product Development Manager – (02) 9725 2544

**Emergency Telephone Number:** (02) 9725 2544 – 8am to 6pm Monday to Friday.

#### 2) HAZARDS IDENTIFICATION

##### HAZARDOUS SUBSTANCE - NON DANGEROUS GOOD

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

**Risk phrases:** R36 - Irritating to eyes.  
R40 - Limited evidence of a carcinogenic effect.

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

**ADG Classification** Not a Dangerous good for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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

#### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Chlorothalonil	1897-45-6	72%
Other ingredients including wetting agents and water	Non hazardous	10-40%

#### 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 soap and water.



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#### 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.
<b>Ingestion:</b>	Wash mouth out with water. Do NOT induce vomiting. Give a glass of water. 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. Chlorothalonil may produce temporary allergic reactions (redness of eyes, mild bronchial irritation, redness or rash on exposed skin). Anti-histamine or steroid creams are effective barrier treatments. No specific antidote known.

#### 5) FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Water spray, foam, dry chemical, carbon dioxide (CO <sub>2</sub> )
<b>Hazard from combustion products</b>	In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide 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>	Not applicable.

#### 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 combustible.



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#### 8) EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Standards</b>	No exposure standards have been assigned. Supplier recommended hygiene standard is TWA = 0.1 mg/m <sup>3</sup> .  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 or face shield Clothing: Cotton overalls buttoned to the neck and wrists and a washable hat. Gloves: Elbow length chemical resistant PVC gloves Respiratory: Disposable mist mask.

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

<b>Appearance:</b>	Light grey viscous liquid
<b>Odour:</b>	Slightly pungent
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	>100°C
<b>Freezing/Melting point:</b>	Melting point is -5°C
<b>pH:</b>	Not available.
<b>Solubility:</b>	Disperses in water
<b>Specific gravity:</b>	
<b>Flash point:</b>	Does not flash
<b>Flammability (explosive) limit:</b>	Not available
<b>Auto ignition temperature:</b>	Not available
<b>Partition coefficient (octanol/water):</b>	Chlorothalonil : log P <sub>ow</sub> = 2.92 at 25°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.



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#### 10) STABILITY AND REACTIVITY continued

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

**Hazardous reactions:** None

#### 11) TOXICOLOGICAL INFORMATION

**Inhalation:** Unlikely to be harmful when handled and used as directed on the label.

**Skin contact:** Slight irritant. Allergic reactions in sensitive persons are possible.

**Eye contact:** Severe irritant. May cause conjunctivitis, and corneal opacity.

**Ingestion:** Product toxicity is low, but if swallowed in large amounts may be expected to cause general depression, diarrhoea and irritation of the mouth, oesophagus and the stomach.

##### ANIMAL TOXICITY DATA – PRODUCT

##### Acute:

**Oral toxicity:** LD<sub>50</sub> rat >10000mg/kg

**Dermal toxicity:** LD<sub>50</sub> rat >10000mg/kg

**Inhalation toxicity:** LC<sub>50</sub> rat (4 hour): 0.1mg/L (chlorothalonil)

**Skin irritation:** Severe irritant

**Irritation of mucous membranes:** Severe irritant

**Sensitisation:** Skin sensitiser

##### Chronic:

Chlorothalonil technical has been extensively tested in mammals and in test-tube systems. No evidence of mutagenic, neurotoxic, teratogenic or reproductive effects was obtained. Subchronic toxicity studies in dogs have shown kidney toxicity, and chronic toxicity studies in rats and mice have shown kidney and forestomach tumours at high doses. This is not considered to be a risk to humans when handled and used as directed on the label.

#### 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 Ippon or the used containers.

##### **Ecotoxicity: Chlorothalonil:**

Fish toxicity: LC<sub>50</sub> (96 h) bluegill sunfish (*Lepomis macrochirus*) 62 µg/L

LC<sub>50</sub> (96 h) in trout (*Onchorhynchus mykiss*) 49 µg/L

Daphnia toxicity: EC<sub>50</sub> (48 h) water flea (*Daphnia magna*) 70 µg/L

Brown shrimp LC<sub>50</sub> (48 h) 1000 µg/L Pink shrimp LC<sub>50</sub> (48 h) 165 µg/L

Algal Toxicity: IC<sub>50</sub> (72 h) *Navicula pelliculosa* 5.1mg/L



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#### 12) ECOLOGICAL INFORMATION *continued*

**Ecotoxicity  
(continued):**

**Chlorothalonil:**

Bird toxicity:

Acute oral LD<sub>50</sub> mallard duck >4640 mg/kg

Chlorothalonil is practically non-toxic to birds, mammals, bees and earthworms.

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

Chlorothalonil is rapidly degraded in the soil with a half-life ranging from a few days to a few days.

#### 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>	Not applicable
<b>Proper Shipping name:</b>	Not applicable
<b>Class and subsidiary risk:</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>EPG:</b>	Not applicable
<b>Hazchem code:</b>	Not applicable

#### 15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 63122

#### 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**