



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 December 2017

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

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

**Other Names:** Chlorothalonil (ISO), tetrachloroisophthalonitrile (IUPAC)

**Chemical Group:** Dicarboximide

**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

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**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

**GHS classification:** Acute toxicity – oral : Category 4  
Acute toxicity – inhalation : Category 4  
Specific organ toxicity (respiratory) : Category 3  
Skin sensitisation : Category 1  
Carcinogenicity : Category 2  
Serious eye damage / eye irritation : Category 2

**Signal Words:** WARNING

**Hazard Statements :** H302+H332 Harmful if swallowed or inhaled.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer  
H319 Causes serious eye damage  
H335 May cause respiratory irritation  
H410 Very toxic to aquatic life with long lasting effects.

**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.



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#### Pictograms :



#### Precautionary statements Prevention:

P201 Obtain special instruction before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing vapours or spray.  
P264 Wash hands thoroughly after handling  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the work place.  
P281 Use personal protective equipment as required.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P305 + P351 +P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists : get medical advice/attention.  
P302+P352 IF ONM SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs : get medical advice/attention.  
P304+P340 IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing.  
P312 Call a POISONS CENTRE or a doctor if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P308+P313 If exposed or concerned: get medical advice/attention.

#### Storage :

P405 Store locked up.

#### Disposal:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to an approved waste disposal plant.

#### Other information :

Non-dangerous goods (land transport in Australia only).  
Hazardous substance.

### 3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Chlorothalonil	1897-45-6	720 g/L
Other ingredients including wetting agents and water	Non hazardous	30-60%



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#### 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 symptoms persist, 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. If skin redness or rash occurs, get medical attention. Wash contaminated clothing before reuse.
- In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISONS CENTRE /doctor.
- If swallowed:** Rinse mouth. DO NOT induce vomiting. Call a doctor.
- 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** Water spray, carbon dioxide, foam or dry chemical. DO NOT use a solid water stream as this may scatter and spread the fire.
- 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 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.



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#### 7) HANDLING AND STORAGE

<b>Handling</b>	Keep out of reach of children. Attacks eyes and skin. Do not inhale spray mist. Repeated exposure may cause allergic disorders. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrists, a washable hat, elbow-length PVC gloves, goggles and a disposable mist mask. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, immediately wash it out with water. 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 out of sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers. Protect from frost.

#### 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. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.
<b>Personal Protective Equipment</b>	Eyes: Safety goggles. Clothing: Cotton 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

<b>Appearance:</b>	Greyish white viscous liquid
<b>Odour:</b>	No data available.
<b>Vapour pressure:</b>	Not available
<b>Relative vapour density:</b>	Not available
<b>Evaporation rate:</b>	Not determined.
<b>Boiling point:</b>	No data available.



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<b>Freezing/Melting point:</b>	No data available.
<b>pH:</b>	8.0 at 20 mL/80mL water
<b>Solubility:</b>	Disperses in water
<b>Specific gravity:</b>	1.35 (25°C)
<b>Flash point:</b>	No data available.
<b>Flammability (explosive) limit:</b>	Not available
<b>Auto ignition temperature:</b>	No data available.
<b>Partition coefficient (octanol/water):</b>	No data available.
<b>Viscosity:</b>	No data available
<b>Oxidising properties:</b>	No data available.

**10) STABILITY AND REACTIVITY**

<b>Chemical stability:</b>	Stable against heat, acid, alkali, and sunlight under normal conditions of use and storage.
<b>Conditions to avoid:</b>	Excessive heat
<b>Incompatible materials :</b>	None known.
<b>Hazardous decomposition products:</b>	In a fire, formation of carbon monoxide, carbon dioxide, hydrochloric acid and nitrogen oxides can be expected.
<b>Hazardous reactions:</b>	Stable under recommended storage conditions. No decomposition if used as directed.

**11) TOXICOLOGICAL INFORMATION**

<b>Inhalation:</b>	<b>HARMFUL</b> Tests on rats indicate this product is harmful following skin contact with undiluted product.
<b>Skin contact:</b>	<b>LOW TOXICITY</b> Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product.
<b>Sensitisation :</b>	<b>SENSITISER</b>
<b>Eye contact:</b>	<b>SEVERE IRRITANT</b>
<b>Ingestion:</b>	<b>HARMFUL</b> Tests on rats indicate this product is harmful following single doses of undiluted product.
<b>Chronic toxicity:</b>	
<b>Germ cell mutagenicity:</b>	No sufficient data available
<b>Carcinogenicity:</b>	2B by IARC and Japan Society for Occupational health (Mutagenicity Negative. Showed threshold value). Category 2



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<b>Toxic to reproduction:</b>	In the rat teratology study, a slight increase, not statistically different, in the number of early embryonic deaths was associated with the maternal toxicity at the high dose (category 2)
<b>Specific target organ toxicity (repeated exposure):</b>	No sufficient data available
<b>Acute toxicity:</b>	
<b>Oral toxicity:</b>	LD <sub>50</sub> rat-male > 2,500 mg/kg
<b>Dermal toxicity :</b>	LD <sub>50</sub> rat-male and female >2,000mg/kg
<b>Inhalation toxicity:</b>	No data
<b>Sensitisation:</b>	Negative (guinea pig)
<b>Respiratory sensitisation</b>	No data available
<b>Specific target organ toxicity (single exposure):</b>	No sufficient data available

**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 Dacogreen or the used containers.

**Ecotoxicity: Very highly toxic to fish**  
Fish toxicity: LC-50 (96 h)(rainbow trout) 61ug/L (similar formulation)  
**Highly toxic to aquatic invertebrates.**  
Daphnia toxicity: LC-50 (48 h) 180 ug/L (similar formulation)  
Highly toxic to algae  
Green algae (*Pseudokirchneriella subcapitata*) toxicity : EbC<sub>50</sub> (72h) 0.13mg/L  
**Slightly toxic to earthworms**  
Earthworm (*Eisenia foetida*) LC-50 (14days) 881 mg/kg  
**Non-toxic to bees**  
Oral LD-50 >200ug/bee  
Contact LD-50 >200ug/bee

**Environmental fate, persistence and degradability, mobility** Not persistent in water, low to slight mobility in soil, low potential for bioaccumulation.

**Identified harmful effects on environment:** This product is a marine pollutant for sea transport. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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



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**13) 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.

**14) TRANSPORT INFORMATION**

**International regulation**

**UNRTDG**

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

**AIR TRANSPORT -  
IATA-DGR**

**UN/ID No.:** 3082  
**Proper shipping name:** Environmentally hazardous substance, liquid,n.o.s. (chlorothalonil)  
**Class:** 9  
**Packing group:** III  
**Labels:** Miscellaneous  
**Packing instruction (cargo aircraft):** 964  
**Packing instruction (passenger aircraft):** 964

**SEA TRANSPORT –  
IMDG CODE**

3082  
**UN number:**  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorothalonil)  
**Class:** 9  
**Packing group:** III  
**Marine pollutant:** Yes

**LAND TRANSPORT –  
ADG CODE**

None allocated.  
**UN number:**  
**Proper shipping name:** None allocated  
**Class:** None allocated  
**Packing group:** None allocated



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**Hazchem code:** 2X  
**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) IBCs.

#### 15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 63121

#### 16) OTHER INFORMATION

Date of revision : 1 December 2017  
Reason for revision : Revisions to Sections 2, 4, 5, 7, 11, 12 and 14.

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**