



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL FLUDY 230SC FUNGICIDE
Other Names: Fludioxonil
Chemical Group:
CAS No.: 131341-86-1
Recommended Use: Fungicide for use on fruit postharvest.
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: 13 11 26 (Poisons Information Centre)

2) HAZARDS IDENTIFICATION

GHS classification: Skin sensitisation : Category 1

GHS Signal Words: WARNING

Hazard Statements : H317 May cause an allergic skin reaction

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

Pictograms :



Precautionary statements Prevention: P261 : Avoid breathing fumes, mists, vapours or sprays.
P272 : Contaminated work clothing should not be allowed out of the workplace.
P273 : Avoid release to the environment.
P280 : Wear protective gloves/eye protection/face protection.



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Precautionary statements	P302+P352: IF ON SKIN: Wash with plenty of soap and water.
Response:	P333+P313 : If skin irritation or rash occurs : Get medical advice. P363 : Wash contaminated clothing before reuse.
Storage :	P402 + P404 : Store in a dry place. Store in a closed container. P403+P235 : Store in a well-ventilated place. Keep cool.
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.
Other information :	No other information. Hazardous substance according to SWA criteria.

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Fludioxonil	131341-86-1	230g/L
Other non-hazardous ingredients	secret	To 100%

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:	Remove sources of contamination or move victim to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Contact a Poisons Information Centre or a doctor immediately.
In case of skin contact:	Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watch bands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.
In case of eye contact:	Check and carefully remove any contact lenses if easy to do so, if easy to do so. Protect unharmed eye. Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid immediately. Keep eye wide open while rinsing.
If swallowed:	DO NOT induce vomiting. Clean mouth with water. Obtain medical attention immediately.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Poisoning symptoms in laboratory animals were non-specific. There is no specific antidote available. Treat symptomatically.



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5) FIRE FIGHTING MEASURES

Extinguishing media	Not combustible. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Alcohol resistant foam is the preferred firefighting medium for large fires but, if it is not available, normal foam can be used.
Hazard from combustion products	The major hazard in fires is usually inhalation of dense black smoke containing heated and toxic or oxygen deficient (or both) fire gases. Flank back possible over considerable distance.
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	None allocated

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

Handling	Keep out of reach of children. May irritate eyes. Harmful if inhaled. Repeated exposure may cause allergic disorders. Avoid contact with eyes. Do not inhale spray mist. When opening the container and preparing the product for use, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). If applying by hand wear half facepiece respirator with organic vapour/gas cartridge or canister. Change canister if odour or taste of pesticide is noticed (a maximum of 8 hours of use is recommended). Wash hands after use, wash respirator and, if rubber, wash with detergent and warm water, and wash contaminated clothing..
Storage	Store in the closed original container in a cool well ventilated area out of direct sunlight.



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8) EXPOSURE CONTROL/PERSONAL PROTECTION

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

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. If natural ventilation is inadequate, use of a fan is recommended.

Personal Protective Equipment

Eyes: Safety goggles. Eye wash bottle with pure water.

Clothing: Impervious 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

Appearance, Odour and Colour: White liquid, no data re odour.

pH : 6.5 – 7.5 (as supplied)

Specific Gravity: 1.07-1.17

Melting Point: Not applicable

Solubility (water): Suspension

Flash Point: No data

Boiling Point: Approximately 100°C at 100kPa

Vapour Pressure: No data

Vapour Density: No data

Percent Volatiles: No data

Flammability Limits: **UFL:** Not determined
LFL: Not determined

Autoignition Temperature: Not applicable – does not burn.

Partition co-efficient, n-octanol/water No data



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10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use and storage.
Conditions to avoid:	Protect this product from sunlight.
Incompatible materials :	None known.
Hazardous decomposition products:	This product is unlikely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon monoxide, carbon dioxide, and thick black smoke. May form oxides of nitrogen and fluorine compounds. Carbon monoxide poisoning produced headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by coma and death.
Hazardous reactions:	Stable under recommended storage conditions. No decomposition or hazardous polymerisation reactions if used as directed.

11) TOXICOLOGICAL INFORMATION

Inhalation :	Available data show that this product is harmful. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat.
Skin contact:	Repeated exposure may cause allergic disorders.
Eye contact:	Fludioxonil is an eye irritant. Symptoms may include stinging and reddening of the eyes and watering which may become copious. However, lengthy exposure or delayed treatment may cause permanent damage.
Ingestion:	Significant oral exposure is considered to be unlikely.
<u>Chronic toxicity:</u>	
Mutagenicity:	No evidence of mutagenicity.
Teratogenicity:	No evidence of teratogenicity..
Reproductive effects:	No evidence of reproductive effects.
Carcinogenicity:	No evidence of carcinogenicity.
Organ toxicity:	Liver and kidney toxicity can occur at high dose levels.
<u>Acute toxicity:</u>	
Oral toxicity (product):	LD ₅₀ rat >5,000 mg/kg Low toxicity
Dermal toxicity (product):	LD ₅₀ rat >5,050 mg/kg Low toxicity.



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Sensitisation: Not a skin sensitizer.

12) ECOLOGICAL INFORMATION

Highly toxic to aquatic organisms. Practically non-toxic to algae and earthworms.
DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity: **Fludioxonil:**

Fish toxicity:

LC₅₀ (96 hr) *Oncorhynchus mykiss* (rainbow trout) 0.47 mg/L

Daphnia :

EC₅₀ (48 hr) *Daphnia magna* 0.4 – 0.9 mg/L

Algae :

EC₅₀ (72 hr) *Anabaena flos-aquea* (blue-green alga) 5.6 mg/L

Soil dwelling organisms:

LC₅₀ (*Eisenia foetida*) earthworm >1,000 mg/kg

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

Fludioxonil is persistent in soils and stable in water.
Fludioxonil has low mobility in soil.
Fludioxonil is not readily biodegradable.
Fludioxonil does not bioaccumulate.

**Identified harmful
effects on
environment:**

This product is a marine pollutant for sea and air transport. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms.

Other precautions:

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

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.



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14) TRANSPORT INFORMATION

Not subject to the ADG Code when transported by road or rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by air or sea transport (see details below).

SEA TRANSPORT (IMDG)

UN Number : 3082

Correct shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fludioxonil)

Hazchem Code :

Dangerous Goods Class : Class 9 : Miscellaneous Dangerous Goods

Packing Group : III

AIR TRANSPORT (IATA-DGR)

UN Number : 3082

Correct shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fludioxonil)

Hazchem Code :

Dangerous Goods Class : Class 9 : Miscellaneous Dangerous Goods

Packing Group : III

15) REGULATORY INFORMATION

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

16) 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