



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 July 2009

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL MAGNATE 500EC FUNGICIDE
Other Names: None
Chemical Group: Imidazole
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: (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: R20/22
R41
R50/53

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

ADG Classification Not classified as a dangerous good for transport and storage within Australia

SUSDP classification: 5 (Standard for the Uniform Scheduling of Drugs & Poisons)

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Imazalil	252-615-0	50%
Inert ingredients	Non hazardous	40-60%

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 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

Eye contact:	Check and remove any contact lenses. Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid.
Ingestion:	Induce vomiting. Wash mouth out with water. Keep patient at rest and seek medical advice. Loosen tight clothing. Never give anything by mouth to an unconscious patient.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	There is no specific antidote. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

5) FIRE FIGHTING MEASURES

Extinguishing media	Water spray, foam, dry chemical, carbon dioxide (CO ₂)
Hazard from combustion products	In a fire, formation of nitrogen and sulphur oxides, carbon monoxide, carbon dioxide and HCl, 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. 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 (<50°C). Do not store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers. keep container dry.
Flammability	Not flammable.



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8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	No exposure standards have been assigned for imazalil.	
Biological Limit Values	None allocated	
Engineering Controls	Use in a well ventilated area only.	
Personal Protective Equipment	Eyes:	Safety goggles or face shield
	Clothing:	Cotton overalls buttoned to the neck and wrists.
	Gloves:	Elbow length chemical resistant PVC gloves
	Respiratory:	Suitable particulate respiratory equipment

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	Translucent orange-light brown liquid
Odour:	Odourless
Vapour pressure:	<i>Imazalil</i> : 2.02×10^{-4} mmHg at 25°C
Vapour density:	Not available
Boiling point:	Decomposes at about 192°C without melting.
Freezing/Melting point:	<i>Imazalil</i> : 51-54°C
pH:	7.12
Solubility:	Emulsifiable
Specific gravity:	1.1226 g/mL at 20°C.
Flash point:	130°C(closed cup)
Flammability (explosive) limit:	Not available
Auto ignition temperature:	Not available
Partition coefficient (octanol/water):	<i>Imazalil</i> : $\log_{\text{Pow}} = 4.03$

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Excessive heat, sunlight and open flames. Decomposes upon heating.
Incompatible materials :	Strong acids and strong bases.
Hazardous decomposition products:	In a fire, formation of nitrogen and sulphur oxides, HCl , carbon monoxide and carbon dioxide can be expected.
Hazardous reactions:	None. Hazardous polymerisation is not possible.



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11) TOXICOLOGICAL INFORMATION

Individuals with allergy history or pre-existing dermatitis should take extra care in handling this product.

Inhalation:	Inhalation may result in respiratory irritation. May be harmful
Skin contact:	May cause sensitisation by prolonged skin contact.
Eye contact:	Risk of serious damage to eyes with concentrate. Note that the in-use aqueous formulation (0.1% maximum concentration) is not irritating to the eyes. Causes redness and tears.
Ingestion:	May be harmful.

ANIMAL TOXICITY DATA – PRODUCT

Acute:

Oral toxicity	LD ₅₀ rat 2000mg/kg
Dermal toxicity:	LD ₅₀ rat >2000mg/kg
Inhalation toxicity:	LC ₅₀ rat 2.83mg/L (4 hr)
Skin irritation:	Mildly irritating to skin (rabbit).
Irritation of mucous membranes:	Severe irritant
Sensitisation:	Non sensitiser - guinea pig

Chronic:

Not carcinogenic, not mutagenic, not teratogenic in animal experiments.

12) ECOLOGICAL INFORMATION

Harmful to aquatic organisms and may cause adverse effects in the aquatic environment. DO NOT contaminate streams, rivers or waterway with Magnate or the used containers.

Ecotoxicity:	<u>Imazalil:</u> <i>Fish toxicity:</i> LC ₅₀ (96 hr) in trout (<i>Onchorhynchus mykiss</i>) 1.48 mg/L <i>Daphnia:</i> EC ₅₀ (48 hr) 3.5 mg/L <i>Algae :</i> EC ₅₀ (72 hr) 0.87mg/L <i>Bird toxicity:</i> Acute oral LD ₅₀ >2000 mg/kg (mallard duck)
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Environmental fate, persistence and degradability, mobility	Imazalil does not leach to ground water.
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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

UN Number:	Not applicable
Proper Shipping name:	Not applicable
Class and subsidiary risk:	Not applicable
Packing Group:	Not applicable
EPG:	Not applicable
Hazchem code:	2X

15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth).
Australian Pesticides and Veterinary Medicines Authority approval number: 59648

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