



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 January 2008

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL PROTAK 450EC FUNGICIDE
Other Names: None
Chemical Group: Imidazole
Recommended Use: Fungicide for use on agricultural 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
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 - DANGEROUS GOOD

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

Risk phrases: R10
R20/21
R38
R22
R50/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

ADG Classification 3

SUSDP classification: 6

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Prochloraz	67747-09-5	45%
Xylene	1330-20-7	30-60%

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.



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4) FIRST AID MEASURES continued

Skin Contact:	Carefully remove contaminated clothing. Wash affected areas with soap and water.
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. Keep patient at rest and seek medical advice. Wash mouth out with water.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Treat symptomatically and give supportive therapy. No specific antidote known. If ingested, perform gastric lavage and administer activated charcoal.

5) FIRE FIGHTING MEASURES

Extinguishing media	Water spray or fog, foam, dry chemical, carbon dioxide (CO ₂)
Hazard from combustion products	In a fire, formation of toxic compounds of carbon, nitrogen and chlorine 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	3 [Y] E

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. 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. No smoking.
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.
Flammability	Flammable.



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8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	No exposure standards have been assigned for prochloraz. TLV (USA) : 434mg/m ³
	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.
Biological Limit Values	None allocated
Engineering Controls	Control process conditions to avoid contact. Use in a well ventilated area only.
Personal Protective Equipment	Eyes: Safety goggles or face shield Clothing: Chemical resistant disposable overalls and PVC boots.. Gloves: Chemical resistant PVC or nitrile gloves Respiratory: If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	Translucent amber liquid
Odour:	Characteristic (aromatic)
Vapour pressure:	Prochloraz : 4.5 x 10 ⁻⁵ Pa @ 25°C
Vapour density:	Not available
Boiling point:	Not available
Freezing/Melting point:	Prochloraz : 46-49°C
pH:	Not available
Solubility:	Emulsifies in water. Pure prochloraz 20ppm @20°C
Specific gravity:	1.08 – 1.09 at 20°C
Flash point:	23°C
Flammability (explosive) limit:	Xylene: Lower explosion limit : 1% Upper explosion limit : 7%
Auto ignition temperature:	Not available
Partition coefficient (octanol/water):	Prochloraz : log P _{ow} = 4.06

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Sunlight, excessive heat, open flames. Decomposes on heating.
Incompatible materials :	Strong acids and alkalis.



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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: Hazardous polymerisation will not occur.

11) TOXICOLOGICAL INFORMATION

Inhalation: May irritate mucous membranes of nose and mouth.
Skin contact: Moderate to severe irritant - rabbit
Eye contact: May cause redness and tears.
Ingestion: Product toxicity is low, but may be harmful if swallowed in large amounts.

ANIMAL TOXICITY DATA – PRODUCT

Acute:
Oral toxicity: LD₅₀ rat >2000mg/kg
Dermal toxicity: LD₅₀ rat >2000mg/kg
Inhalation toxicity: LC₅₀ rat (4 hour): >5.86mg/L
Skin irritation: Not irritating - rabbit
Irritation of mucous membranes: No data
Sensitisation: Not sensitising - guinea pig

Chronic:
Prochloraz is not carcinogenic, not mutagenic, not teratogenic.

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 Protak or the used containers.

Ecotoxicity: **Prochloraz:**
Fish toxicity:
LC₅₀ (96 h) bluegill sunfish (*Lepomis macrochirus*) <10mg/L
Bird toxicity:
Acute oral LD₅₀ >2000mg/kg

Low hazard to bees.

Environmental fate, persistence and degradability, mobility Prochloraz is rapidly degraded when exposed to sunlight and UV light. Prochloraz does not leach to ground water.



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12) 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.

13) TRANSPORT INFORMATION

UN Number:	1993
Proper Shipping name:	Flammable liquid, N.O.S., (xylene)
Class and subsidiary risk:	3
Packing Group:	III
EPG:	
Hazchem code:	3 [Y]E

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 45187

15) 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