



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 February 2005

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL HEXACON 50SC FUNGICIDE
Other Names: Hexaconazole
Chemical Group: Triazole
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

NON HAZARDOUS SUBSTANCE - NON DANGEROUS GOOD

Hazardous classification: Not hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)
Risk phrases: None specified
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: Not scheduled (Standard for the Uniform Scheduling of Drugs & Poisons)

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Hexaconazole	79983-71-4	5%
Propylene glycol	57-55-6	10-30%
Other ingredients including wetting agents and water	Non hazardous	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: Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.
Skin Contact: Carefully remove contaminated clothing. Wash affected areas with soap and water.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 February 2005

4) FIRST AID MEASURES continued

Eye contact:	Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid.
Ingestion:	Wash mouth out with water. If vomiting occurs, give more water to drink to assist dilution.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Treat symptomatically.

5) FIRE FIGHTING MEASURES

Extinguishing media	Water fog, foam, dry chemical, carbon dioxide (CO ₂).
Hazard from combustion products	Non-combustible. If involved in a fire, the dehydrated components may emit oxides of carbon and nitrogen, possibly hydrogen chloride.
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	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

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.
Storage	Store in the closed original container in a cool well ventilated area. Do not store for prolonged periods in direct sunlight. Do not store with seed, fertilisers or foodstuffs.
Flammability	Not combustible.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 February 2005

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	No exposure standards have been assigned.	
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 if exposure is possible
	Clothing:	Cotton overalls buttoned to the neck and wrist and a washable hat.
	Gloves:	Elbow length PVC, butyl rubber or neoprene gloves
	Respiratory:	If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	Off white suspension
Odour:	Odourless
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Boiling point:	Not available
Freezing/Melting point:	Not available
Solubility:	Disperses in water
Specific gravity:	1.04 at 20°C
Flash point:	Not applicable
Flammability (explosive) limit:	Not applicable
Auto ignition temperature:	Not applicable
Partition coefficient (octanol/water):	Not available

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Excessive heat
Incompatible materials :	Oxidising agents.
Hazardous decomposition products:	In a fire, formation of hydrogen chloride, carbon monoxide and nitrogen oxides can be expected.
Hazardous reactions:	Keep away from strong oxidisers.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 February 2005

11) TOXICOLOGICAL INFORMATION

Inhalation:	Not a likely route of exposure when handling the concentrate. care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying. May produce respiratory irritation.
Skin contact:	May irritate the skin. Can cause sensitisation from prolonged contact.
Eye contact:	May irritate the eyes.
Ingestion:	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.

ANIMAL TOXICITY DATA - PRODUCT

Acute:

Oral toxicity LD₅₀ rat (male) 2189 mg/kg for hexaconazole.
LD₅₀ rat (female) 6071mg/kg for hexaconazole.

Dermal toxicity: No data

Inhalation toxicity: LC₅₀ rat (4 hour): >5.9mg/L

Skin irritation: Mild skin irritant

Irritation of mucous membranes: Slightly irritating

Sensitisation: Can cause skin sensitisation with prolonged contact.

Chronic:

The Australian Acceptable Daily Intake (ADI) for hexaconazole for a human is 0.005 mg/kg/day for a lifetime exposure. This is based on a NOEL of 0.5mg/kg/day, the level determined to show no effects during longterm exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm, Dept. of Health and Aging, ADI List, TGA, August 2003).

12) ECOLOGICAL INFORMATION

DO NOT contaminate streams, rivers or waterway with Hexacon or the used containers.

Ecotoxicity: **Hexaconazole:**
Fish toxicity: LC₅₀ (96 h) mirror carp 5.94mg/L
LC₅₀ (96 h) in trout (*Onchorhynchus mykiss*) 5.94mg/L
LC₅₀ (96 h) in sheepshead minnow 5.4mg/L

Daphnia toxicity: LC₅₀ (48 h) water flea (*Daphnia magna*) 2.9mg/L

Ecotoxicity (continued): **Hexaconazole:**
Bird toxicity: Not toxic to birds.
Acute oral LD₅₀ mallard duck >4000mg/kg
Bee toxicity: Not toxic to bees.
LD₅₀ >100 µg/bee



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 February 2005

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:	Not applicable
Marine Pollutants:	No

15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 54344

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