



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 APOLLO SC MITICIDE
Other Names: None
Chemical Group:
Recommended Use: Miticide 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 - NOT A DANGEROUS GOOD

Hazardous classification: Hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)
Risk phrases: None
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: 5 (Standard for the Uniform Scheduling of Drugs & Poisons)

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Clofentezine	74115-24-5	40%
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:	Wash mouth out with water. Do NOT induce vomiting. Do not make victim drink. Keep patient at rest and seek medical advice. Loosen tight clothing.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	There is no specific antidote. Treat symptomatically and give supportive therapy.

5) FIRE FIGHTING MEASURES

Extinguishing media	Water spray, foam, dry chemical, carbon dioxide (CO ₂), sand
Hazard from combustion products	
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. Not combustible.
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. 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. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers. keep container dry. Sensitive to frost.
Flammability	Not flammable. Not combustible.



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8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	No exposure standards have been assigned for clofentezine. 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	Use in a well ventilated area .	
Personal Protective Equipment	Eyes:	Safety goggles or face shield
	Clothing:	Cotton overalls buttoned to the neck and wrists and waterproof boots.
	Gloves:	Elbow length chemical resistant PVC or nitrile gloves
	Respiratory:	Not applicable.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	Red (magenta) liquid
Odour:	No odour
Vapour pressure:	As for water
Vapour density:	As for water
Boiling point:	No data
Freezing/Melting point:	No data
pH:	6 – 7.5
Solubility:	Miscible in water
Specific gravity:	1.19
Flash point:	Not applicable
Flammability (explosive) limit:	Not flammable
Auto ignition temperature:	Not flammable
Partition coefficient (octanol/water):	Clofentezine : $\log_{\text{Pow}} = 3.01$

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	None known
Incompatible materials :	None known



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10) STABILITY AND REACTIVITY continued

Hazardous decomposition products: None known under conditions of normal use and service.

Hazardous reactions: None.

11) TOXICOLOGICAL INFORMATION

Inhalation: Not applicable

Skin contact: Slight irritant – rabbit.

Eye contact: Slight irritant – rabbit.

Ingestion: Only slightly toxic

ANIMAL TOXICITY DATA – PRODUCT

Acute:

Oral toxicity LD₅₀ rat >5000mg/kg

Dermal toxicity: LD₅₀ rat >4000mg/kg

Inhalation toxicity: No data

Skin irritation: Slight irritation

Irritation of mucous membranes: May irritate

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 Apollo or the used containers.

Ecotoxicity: Fish toxicity: LC₅₀ (96 h) in rainbow trout (*Onchorhynchus mykiss*) 20mg/L
LC₅₀ (96 h) in bluegill sunfish 200mg/L

Daphnia LC₅₀ 200mg/L (48 hours)

Algae EC₅₀ >100mg/L (72 hours)

**Ecotoxicity
(continued):**

Bird toxicity:

Acute oral LD₅₀ >3000 mg/kg (mallard duck)

Bee toxicity : Low toxicity

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

Immobile in soil.

Soil DT50 30-135 days.

Water DT50 248 hours (pH 5.0), 34 hours (pH 7.0), 4 hours (pH9.0)

Does not bioaccumulate in fish.

BCF=248



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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:	Not applicable
Proper Shipping name:	Not applicable
Class and subsidiary risk:	Not applicable
Packing Group:	Not applicable
EPG:	Not applicable
Hazchem code:	Not applicable

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 54059

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