

# MATERIAL SAFETY DATA SHEET

## Coopex® Residual Insecticide

Date of Issue: September 26<sup>th</sup>, 2006

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

**Product name:** Coopex® Residual Insecticide  
**Other names:** None  
**Product code:** 4208632 (1 kg)  
**Chemical group:** Pyrethroid  
**Recommended use:** A general purpose insecticide for use in commercial and domestic situations  
**Formulation:** Wettable powder (WP)  
**Supplier:** Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd  
ABN 87 000 226 022  
**Address:** 391 - 393 Tooronga Road, East Hawthorn  
Victoria 3123, Australia  
**Telephone:** (03) 9248 6888  
**Facsimile:** (03) 9248 6800  
**Website:** [www.bayercropscience.com.au](http://www.bayercropscience.com.au)  
**Contact:** Technical Manager (03) 9248 6854  
**Emergency Telephone Number:** 1800 033 111 – Orica SH&E Shared Services

### 2. HAZARDS IDENTIFICATION

#### HAZARDOUS SUBSTANCE – NON-DANGEROUS GOOD

Harmful if swallowed. Not flammable.

**Hazard designation:** Hazardous (National Occupational Health and Safety Commission - NOHSC)  
**Risk phrases:** R22 – Harmful if swallowed  
**Safety phrases:** See Sections 4, 5, 6, 7, 8, 9, 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. For transport by sea, Coopex Residual Insecticide is a MARINE POLLUTANT. See Section 14.  
**SUSDP classification:** Schedule 5 (Standard for the Uniform Scheduling of Drugs and Poisons)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Permethrin 25:75	[52645-53-1]	250
Amorphous silica	[61790-53-2]	590
Other ingredients	(non hazardous)	160

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### 4. FIRST AID MEASURES

**If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.**

- Inhalation:** Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial. Administer artificial respiration if breathing has stopped.
- Skin contact:** Remove all contaminated clothing and shoes. Wash off skin immediately with soap and plenty of water. Apply vitamin E cream, toilet milks or local anaesthetic creams to reduce irritation if it occurs. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.
- Eye contact:** Immediately rinse eyes thoroughly, including under eyelids, with running water for at least 15 minutes. Seek immediate medical advice.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
- First Aid Facilities:** Provide an eyewash station in the workplace.
- Symptoms:** Burning sensations on the skin, irritation of the mucous membranes, coughing and sneezing may be experienced. Following severe intoxication, respiratory effects can include chest tightness, airway hyperreaction, and pulmonary oedema. Possible circulatory effects include tachycardia, hypotension, and palpitations. Gastrointestinal symptoms may include nausea, vomiting, diarrhoea, abdominal pain, and salivation. Potential Central Nervous System effects are dizziness, blurred vision, headache, listlessness, anorexia, somnolence/coma, seizures/convulsions, tremor, ataxia, and muscle fasciculations.
- Medical attention:** There is no specific antidote. Treat symptoms.

#### Treatment

Basic aid, decontamination, symptomatic treatment and if necessary administration of antidote.

#### Note for physicians

Treat large intakes with gastric lavage, and charcoal administration. Use endotracheal intubation, and artificial respiration (if necessary). Monitor respiratory and cardiac functions. Observe electrocardiograph, and check for pulmonary oedema in event of inhalation. Anticonvulsant therapy with diazepam i.v. No antidote known. Treat symptoms. Recovery should be spontaneous. Elimination by: dialysis, haemo-perfusion. Contraindication – adrenergic compounds, atropine. DO NOT confuse with anticholinesterase compounds. Skin contacted by permethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a vitamin E or moisturising cream or anaesthetic ointment. For eyes, instil local anaesthetic drops e.g. 1% amethocaine hydrochloride eye drops. Give analgesics as necessary.

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### 5. FIRE FIGHTING MEASURES

- Extinguishing media:** Foam, dry chemical or water spray. Do not use a water jet from a fire hose.
- Hazards from combustion products:** In the event of fire, hydrogen chloride, carbon monoxide and carbon dioxide may be released.
- Precautions for fire fighters:** Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1716), as toxic and irritating decomposition products may be produced in a fire. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area to prevent contamination of water sources. Dispose of fire control extinguishing agent and spillage later in a safe manner. Do not release contaminated water into the environment.

### 6. ACCIDENTAL RELEASE MEASURES

Dealing with spills and disposals may result in the potential for increased personal exposure. Protective clothing and equipment as described in the PERSONAL PROTECTION section should be worn. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spill from entering drains, sewers or any body of water. Avoid creating dust. Sweep up into sealable containers for disposal in accordance with applicable local, state and federal regulations.

### 7. HANDLING AND STORAGE

- Handling:** Keep out of reach of children. Avoid contact with eyes and skin. Do not inhale dust.
- Storage:** Store product in the closed, original container in a cool, well-ventilated area away from direct sunlight.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure standards:** Worksafe Australia exposure standard for amorphous silica – 10 mg/m<sup>3</sup> - inspirable fraction.
- Engineering controls:** Control process conditions to avoid contact. Use local exhaust ventilation.
- Personal Protective Equipment:**
- Eyes:** Avoid contact with the eyes. Wear safety goggles or a face shield when handling product, preparing and using spray.
  - Clothing:** Avoid contact with skin. Wear suitable protective clothing. Protective clothing must be stored separately from private clothing.
  - Gloves:** Avoid contact with the skin. Wear elbow-length PVC or nitrile gloves.
  - Respiratory:** Do not inhale dust. Wear a disposable respirator to prevent inhalation.
  - Other:** Wash thoroughly after handling. Do not eat, drink or smoke until after washing. After each day's use wash gloves, goggles or face shield and contaminated clothing.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Buff-coloured powder
Odour:	Mild aromatic odour
Vapour pressure:	Negligible
Vapour density:	Not available
Boiling point:	Not applicable
Freezing/melting point:	Not applicable
Solubility:	Forms a Suspension in water
Density:	Not applicable
pH:	
Flash Point:	Not available – not flammable
Flammability (explosive) limits:	Not applicable
Auto-ignition temperature:	Not applicable
Octanol/water partition coefficient:	Not available
Formulation:	Wettable Powder

### 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	None
Conditions to avoid:	Avoid iron, alloys, oxidisers, strong acids and halogens.
Incompatible materials:	Not available
Hazardous decomposition products:	In the event of fire, hydrogen chloride, carbon monoxide and carbon dioxide may be released.

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### 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

<b>Inhalation:</b>	Inhalation of powder or spray may produce respiratory irritation.
<b>Skin contact:</b>	Mild irritant to the skin. The product or spray should not be allowed to come into contact with the skin.
<b>Eye contact:</b>	Will irritate the eyes. The product or spray should not be allowed to contact the eyes.
<b>Ingestion:</b>	Harmful if swallowed.
<b>Other:</b>	None

#### ANIMAL TOXICITY DATA:

##### Acute:

<b>Oral toxicity:</b>	LD <sub>50</sub> rat: 1479mg/kg (Permethrin 25:75 in corn oil)
<b>Dermal toxicity:</b>	LD <sub>50</sub> rabbit: > 2000 mg/kg (permethrin)
<b>Inhalation toxicity:</b>	LC <sub>50</sub> rat: > 133 mg/L (Product)
<b>Skin irritation:</b>	Not irritating – rabbit
<b>Eye irritation:</b>	Slightly irritating – rabbit
<b>Sensitisation:</b>	Not sensitising - guinea pig

##### Chronic:

Permethrin is not mutagenic, teratogenic or carcinogenic.

### 12. ECOLOGICAL INFORMATION

<b>Fish toxicity:</b>	Permethrin is toxic to fish and aquatic organisms.
<b>Daphnia toxicity:</b>	Not available
<b>Toxicity to algae:</b>	Not available
<b>Bird toxicity:</b>	Not Available
<b>Bee toxicity:</b>	Permethrin is toxic to bees.
<b>Other:</b>	Permethrin is toxic to reptiles.
<b>Environmental fate, persistence and degradation:</b>	Permethrin degrades rapidly in soil and water.

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### 13. DISPOSAL CONSIDERATIONS

Single rinse container before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available, bury the containers below 500 mm 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 (road/rail)
Proper shipping name:	Not applicable (road/rail)
Class and Subsidiary Risk:	Not applicable (road/rail)
Packing Group:	Not applicable (road/rail)
EPG:	Not applicable (road/rail)
Hazchem code:	Not applicable (road/rail)
Marine Pollutant:	Yes – If this product is shipped by sea it is a Class 9 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (contains permethrin), UN 3077, Packing Group III.

### 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 32843

### 16. OTHER INFORMATION

Trademark information:	Coopex® is a Registered Trademark of Bayer
Preparation information:	Replaces October 10, 2002 edition. Reason for update: Hazard classification, Risk phrases, ADG classification, First aid measures, Firefighting measures, Accidental release measures, Disposal considerations, Marine pollutant status, Transport information.
Data sources:	Bayer CropScience Pty Ltd product safety data and published data

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 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.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS