

**Bayer Environmental Science**  
**Material Safety Data Sheet**  
**Coopex® Residual Insecticide**



Version / AUS  
102000002464

Revision Date: 13.07.2011  
Print Date: 13.07.2011

**SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product name: **Coopex® Residual Insecticide**  
Other names: None  
Product code (UVP): 05937655  
Recommended use: Insecticide

Chemical formulation: Wettable powder (WP)

Company: Bayer Environmental Science  
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**SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview**

HAZARDOUS SUBSTANCE	DANGEROUS GOODS
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Hazardous classification:	Hazardous (National Occupational Health and Safety Commission - NOHSC)
R-phrase(s):	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s):	See sections 4, 5, 6, 7, 8, 10, 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.
SUSMP classification (Poison Schedule):	Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons).

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature: Permethrin 25:75 250g/L

Chemical Name	CAS-No.	Concentration [%]
Permethrin	52645-53-1	25.00
Alkylethersulfate, sodium salt	68891-38-3	> 1.00 - < 5.00
Nonylphenol ethoxylate	68412-54-4	> 0.10 - < 2.50
Other ingredients (non-hazardous) to		

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100 %		
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**SECTION 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 the doctor.**

**Inhalation**

Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.

**Skin contact**

Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.

**Ingestion**

Keep at rest. Rinse mouth. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. Call a physician or poison control center immediately.

**Notes to physician**

**Symptoms**

Local: Skin and eye paraesthesia which may be severe, usually transient with resolution within 24 hours. Skin, eye and mucous membrane irritation, cough, sneezing.  
Systemic: Discomfort in the chest, tachycardia, hypotension, nausea, abdominal pain, diarrhoea, vomiting, dizziness, blurred vision, headache, anorexia, somnolence, coma, convulsions, tremors, prostration, airway hyperreaction, pulmonary oedema, palpitation, muscular fasciculation, apathy.

**Risks**

This product contains a pyrethroid.  
Must NOT be confused with organophosphorus compounds!

**Treatment**

Local treatment: Initial treatment: Symptomatic.  
Systemic treatment: Initial treatment: Symptomatic.  
Monitor: Respiratory and cardiac functions.  
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.  
Keep respiratory tract clear.  
Oxygen or artificial respiration if needed.  
In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.  
If not effective, phenobarbital may be used.

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Contraindication: Atropine.  
Contraindication: Derivatives of adrenaline.  
There is no specific antidote.  
Recovery is spontaneous and without sequelae.

#### SECTION 5. FIRE FIGHTING MEASURES

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### Extinguishing media which should not be used for safety reasons

High volume water jet.

##### Hazards from combustion products

Dangerous gases are evolved in the event of a fire.

##### Precautions for fire-fighting

In the event of fire, wear self-contained breathing apparatus.  
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.  
Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code: 2Z

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Keep people away from and upwind of spill/leak.  
Avoid dust formation.  
Avoid contact with spilled product or contaminated surfaces.  
When dealing with a spillage do not eat, drink or smoke.

##### Environmental precautions

Do not allow to get into surface water, drains and ground water.

##### Methods for cleaning up

Use approved industrial vacuum cleaner for removal.  
Keep in suitable, closed containers for disposal.  
Clean floors and contaminated objects with plenty of water.

##### Additional advice

Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.  
Check also for any local site procedures.

#### SECTION 7. HANDLING AND STORAGE

##### Handling

Hygiene measures:  
When using, do not eat, drink or smoke.

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Remove soiled clothing immediately and clean thoroughly before using again.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Wash hands immediately after work, if necessary take a shower.

Advice on protection against fire and explosion:  
Dust may form explosive mixture in air.

#### Storage

Requirements for storage areas and containers:  
Keep out of the reach of children.  
Store in a place accessible by authorized persons only.  
Keep away from direct sunlight.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage:  
Keep away from food, drink and animal feedingstuffs.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Permethrin	52645-53-1	10 mg/m <sup>3</sup> (TWA)		OES BCS
Kaolin (Inspirable dust.)	1332-58-7	10 mg/m <sup>3</sup> (TWA)	08 2005	AU OEL
Diatomaceous earth (Inspirable fraction.)	61790-53-2	10 mg/m <sup>3</sup> (TWA)	08 2005	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

#### Personal protective equipment - End user

General advice: Follow all label instructions.

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Elbow-length PVC or nitrile gloves.

Eye protection: Face-shield or goggles.

#### Engineering controls

Advice on safe handling:  
No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.  
Avoid dust formation.  
Ensure adequate ventilation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form: Powder

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Colour: Yellow brownish  
Odour: Weak, characteristic

#### Safety data

pH: No data available  
Flash point: No data available  
Ignition temperature: No data available  
Upper explosion limit: No data available  
Lower explosion limit: No data available  
Vapour pressure: No data available  
Relative vapour density: No data available  
Density: No data available  
Bulk density: 200 kg/m<sup>3</sup>  
Water solubility: Miscible  
Partition coefficient: n-octanol/water: No data available

#### SECTION 10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.  
Conditions to avoid: Extremes of temperature and direct sunlight.  
Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD<sub>50</sub> (rat) > 2,000 mg/kg  
Acute inhalation toxicity: LC<sub>50</sub> (rat) > 4.10 mg/L  
Exposure time: 4 h  
Acute dermal toxicity: LD<sub>50</sub> (rat) > 1,000 mg/kg  
Skin irritation: No skin irritation (rabbit).  
Eye irritation: Slight irritant effect - does not require labelling (rabbit).  
Sensitisation: Non-sensitizing (guinea pig).  
OECD Test Guideline 406, Magnusson & Kligman test

#### Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae.



However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects**

Toxicity to fish:	LC <sub>50</sub> ( <i>Poecilia reticulata</i> (Guppy)) 0.0076 mg/L Exposure time: 96 h The value mentioned relates to the active ingredient permethrin.
Toxicity to aquatic invertebrates:	EC <sub>50</sub> ( <i>Daphnia magna</i> (Water flea)) 0.00017 mg/L Exposure time: 48 h The value mentioned relates to the active ingredient permethrin.
Toxicity to aquatic plants:	EC <sub>50</sub> ( <i>Selenastrum capricornutum</i> ) 0.497 mg/L Exposure time: 96 h The value mentioned relates to the active ingredient permethrin.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Plastic and foil bags**

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty bags in 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 bags and product should not be burnt.

**Box**

Dispose of empty container by wrapping in paper, placing in plastic bag and putting in the garbage. DO NOT burn empty containers or product.

**SECTION 14. TRANSPORT INFORMATION**

**ADG**

UN-Number	3077
Class	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
Hazchem Code	2Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

**IMDG**

UN-Number	3077
Class	9
Subsidiary Risk	None
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES

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Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(PERMETHRIN MIXTURE)

**IATA**

UN-Number	<b>3077</b>
Class	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE )

**SECTION 15. REGULATORY INFORMATION**

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.

Australian Pesticides and Veterinary Medicines Authority approval number: 32843.

See also Section 2.

**SECTION 16. OTHER INFORMATION**

**Trademark information** COOPEX® is registered trademark of Bayer.

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.

**Further details on the Occupational Exposure Standards mentioned in Section 8:**

CEILING: Ceiling Limit Value

OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

SKIN\_DES: Skin notation: Absorption through the skin may be a significant source of exposure.

TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF MSDS