

# SAFETY DATA SHEET



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## 1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **COOPEX<sup>®</sup> DUST**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.  
Reg. No. 1968/011192/07  
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SOUTH AFRICA

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Responsible department: Product Development and Regulatory Affairs  
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In case of poisoning emergencies:  
Bayer (office hours only): +27 11 921 5429/5471/5639  
Tygerberg Poison Centre: +27 21 931 6129  
Griffon Poison Information Centre: +27 82 446 8946

## 2) HAZARD IDENTIFICATION OF THE PRODUCT

Risk advice to man and the environment: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical nature: Dustable powder (DP)  
Permethrin 0.5 %

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Permethrin	52645-53-1 258-067-9	Xn, N	R20/22, R43, R50/53	0,53

For the full text of the R phrases mentioned in this Section, see Section 16.

## 4) FIRST AID MEASURES

General advice: Remove contaminated clothing immediately and dispose of safely.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. After skin contact: Apply vit. E cream or a simple body milk. If symptoms persist, call a physician.

Eye contact: In case of eye contact, remove contact lenses and rinse immediately with plenty of water, also under the eyelid for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion: Obtain medical attention. Do NOT induce vomiting. Rinse mouth. Keep at rest.

Inhalation: If symptoms persist, call a physician. Move to fresh air. Keep patient warm and at rest.

### NOTES TO PHYSICIAN:

Symptoms: Local: Skin and eye paraesthesia which may be severe. Usually transient with resolution within 24 hours.. Eye and mucous membrane irritation, cough.  
Systemic: Discomfort in the chest, bronchial hypersecretion, pulmonary oedema, tachycardia, low blood pressure, palpitation, vomiting, diarrhoea, abdominal pain, nausea, salivation, dizziness, blurred vision, headache, apathy, anorexia, somnolence, coma, convulsions, tremors, ataxia, muscular fasciculation.

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

Treatment: Local treatment: Initial treatment: symptomatic.  
Systemic treatment: Endotracheal intubation and gastric lavage, followed by administration of charcoal.  
Monitoring of respiratory and cardiac functions.  
ECG - monitoring (Electrocardiogram).

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Check for pulmonary oedema in event of inhalation.  
 Keep airway clear, administer artificial respiration if necessary.  
 Against convulsions: give diazepam. For adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.  
 There is no specific antidote.  
 Contraindication: atropine.  
 Contraindication: derivatives of adrenaline.  
 Spontaneous recovery.

## 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.  
 Specific hazards during fire fighting: Dangerous gases are evolved in the event of a fire.  
 Special protective equipment for fire-fighters: In the event of fire and/or explosion do not breathe fumes.  
 In the event of fire, wear self-contained breathing apparatus.  
 Further information: 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.

## 6) ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not allow to get into surface water, drains and ground water.  
 Methods for cleaning up: Sweep up or vacuum up spillage and collect in suitable container 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.

## 7) HANDLING AND STORAGE

Handling: Advice on protection against fire and explosion  
 Dust may form explosive mixtures with air.  
 Storage: 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.  
 Temperature tolerance: -10 °C to 40 °C  
 Suitable materials: Store in original container.

## 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Control parameters	Basis
Permethrin	52645-53-1	10 mg/m <sup>3</sup>	OES BCS*

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Personal protection during normal use: No protective clothing required when applied according to labeled directions for use.

Personal protection during formulation/production:

Respiratory protection: Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection: Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection: Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

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Skin and body protection: Wear standard coverall and type 5 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hygiene measures: When using, do not eat, drink or smoke.  
Wash hands immediately after work, if necessary take a shower.  
Remove soiled clothing immediately and clean thoroughly before using again.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Description: Grey white powder

Solubility: Insoluble in water

Bulk density: 630 kg/m<sup>3</sup>

## 10) STABILITY AND REACTIVITY

Conditions to avoid: Extremes of temperature and direct sunlight.

No hazardous reactions when stored and handled according to prescribed instructions.

Stable under normal conditions.

## 11) TOXICOLOGICAL INFORMATION

Acute toxicity:

LD<sub>50</sub> oral, rat: > 5000 mg/kg\*

LD<sub>50</sub> dermal, rat: > 10000 mg/kg\*

LC<sub>50</sub> inhalation, rat: > 2300 mg/ℓ\*  
Exposure time: 4 h

Irritation of the skin, rabbit: Slight irritant effect\* – does not require labelling

Irritant to the eye, rabbit: Slight irritant effect\* – does not require labelling

\*Tests conducted with a similar formulation

Skin sensitising, guinea-pig: Not a skin sensitizer

Information given is based on data on the components and the toxicology of similar products.

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).

## 12) ECOLOGICAL INFORMATION

Toxicity to fish: (active ingredient)

LC<sub>50</sub> (96 h): Rainbow trout 0,009 mg/ℓ

## 13) DISPOSAL CONSIDERATIONS

Product: In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging: Triple rinse containers.  
Do not re-use empty containers.  
Not completely emptied packaging should be disposed of as hazardous waste.

## 14) TRANSPORT INFORMATION

UN Number: 3077

Class: 9

IMDG: -

Ems: F-A, S-F

MFAG: -

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cyfluthrin)

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Declaration for sea shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cyfluthrin)

Declaration for shipment by air: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cyfluthrin)

Marine pollutant.

## 15) REGULATORY INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification: Hazard warning labelling compulsory

Hazardous components which must be listed on the label: Permethrin

Symbol(s):

N: Dangerous for the environment.

R-phrase(s):

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S35: This material and its container must be disposed of in a safe way.

S57: Use appropriate container to avoid environmental contamination.

Exceptional labelling: To avoid risks to man and the environment, comply with the instructions for use.  
Contains permethrin. May produce an allergic reaction.

WHO Classification: III (slightly hazardous)

## 16) OTHER INFORMATION

Text of R phrases mentioned in Section 3:

R20/22: Harmful by inhalation and if swallowed.

R43: May cause sensitization by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Consult the label for the instructions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

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