

SAFETY DATA SHEET



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1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **COOPEX® WETTABLE POWDER**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
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Bayer (office hours only): +27 11 921 5310/5663/5471/5639
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: Wettable powder (WP)
Permethrin 25 % w/w

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	25,00
Alkylethersulfate, sodium salt	68891-38-3	Xi	R38, R41	> 1,00 - < 5,00
Nonylphenol ethoxylate	68412-54-4	Xn, N	R22, R41, R51/53	> 0,10 - < 2,50

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

4) FIRST AID MEASURES

Skin contact: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or a simple body milk. 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. Get medical attention if irritation develops and persists.

Ingestion: Rinse out mouth and give water in small sips to drink. If symptoms persist, call a physician. Ingest activated charcoal. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract).

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

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, diarrhea, abdominal pain, nausea, salivation, dizziness, blurred vision, headache, apathy, anorexia, somnolence, coma, convulsions, tremors, ataxia, muscular fasciculation.

Risks: This product contains a pyrethroid.

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Must NOT be confused with organophosphorus compounds!

Treatment: Local treatment: After eye contact: Instillation of local anaesthetic drops e.g. 1 % Amethocaine Hydrochloride eye drops.
Give Analgesics as necessary.
Systemic treatment: Endotracheal intubation and gastric lavage, followed by administration of charcoal and sodium sulphate.
Monitoring of respiratory and cardiac functions.
Anti-convulsive therapy: Diazepam i.v. is the remedy of choice; barbiturates, e.g. phenobarbital and calcium gluconate, may also be used.
There is no specific antidote.
Contraindication: derivatives of adrenaline.
Contraindication: atropine.
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: 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 the drains, surface water 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.

7) HANDLING AND STORAGE

Handling: No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
Avoid dust formation.
Use only in area provided with appropriate exhaust ventilation.

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 ³	OES BCS*

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

Personal protection during normal application: No protective clothing required if used and applied as per labeled instructions.

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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).

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: A fine, off-white, free-flowing wetttable powder.

Solubility: Miscible

Bulk density: 200 kg/m³

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:

LD₅₀ oral, rat: > 2000mg/kg

LD₅₀ dermal, rat: > 1000 mg/kg

LC₅₀ inhalation, rat: > 4.10 mg/ℓ

Exposure time: 4 h

.Irritation of the skin, rabbit: No skin irritation

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

Skin sensitising, guinea-pig: 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).

12) ECOLOGICAL INFORMATION

Toxicity to fish:

LC₅₀ (96 hours): 0,009 mg/ℓ, Rainbow trout

Degradation: Degradation in soil and water are rapid.

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.

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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.
(Permethrin mixture)
Declaration for sea shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Permethrin mixture)
Declaration for shipment by air: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Permethrin mixture)
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-phrases(s):

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

S-phrases(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.

R22: Harmful if swallowed.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitization by skin contact.

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

R51/53: 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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