

SAFETY DATA SHEET



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1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **AQUAPY®**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
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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: Emulsion, oil in water (EW)
Pyrethrins/Piperonyl butoxide 30:135 g/l

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases	Concentration [%]
Pyrethrins including cinerins	8003-34-7 232-319-8	Xn, N	R20/21/22, R50/53	3,00
Piperonyl butoxide	51-03-6 200-076-7	N	R50/53	13,50
Polyalkyleneoxide modified Heptamethyltrisiloxane	27306-78-1	Xn, N	R20, R36, R48/20, R51/53	> 2,50 - < 25,00
Nonylphenol ethoxylate	9016-45-9	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

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

Skin contact: 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: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

NOTES TO PHYSICIAN:

Symptoms: Local: Skin and eye paraesthesia which may be severe.
Systemic: Dizziness, headache, anorexia, nausea, muscular fasciculation.

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

Treatment: Local treatment: Initial treatment: symptomatic.
Systemic treatment: In the event of a mouthful or more being ingested, the following measures should be considered:

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Endotracheal intubation and gastric lavage, followed by administration of charcoal.
 Monitoring of respiratory and cardiac functions.
 Check for pulmonary oedema in event of inhalation.
 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: Water spray, carbon dioxide (CO₂), alcohol resistant foam, dry chemical.
 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.
 Use 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.
 Do not allow run-off from fire fighting to enter drains or water courses.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep people away from and upwind of spill/leak.
 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: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
 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.

7) HANDLING AND STORAGE

Handling:
 Advice on safe handling: No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
 Use only in area provided with appropriate exhaust ventilation.
 Storage:
 Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place.
 Keep away from direct sunlight.
 Store in a place accessible by authorized persons only.
 Advice on common storage: Keep away from food, drink and animal feedingstuffs.
 Suitable materials: HDPE (high density polyethylene).

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Pyrethrins including cinerins	8003-34-7	1 mg/m ³ (TWA)	02 2006	EU ELV
Pyrethrins including cinerins	8003-34-7	5 mg/m ³		OES BCS*
Piperonyl butoxide	51-03-6	500 ppm		OES BCS*

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

Personal protective equipment: During application: Wear gloves, suitable face mask and respirator.
 During manufacture: Wear CE marked nitrile rubber gloves, goggles conforming to EN166, standard

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overall and type 5 suite.

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

9) PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Colour: White to beige
Odour: Weak characteristic smell
pH value: ≤ 6 at 100 % (20 °C)
Flashpoint: > 70 °C
Density: Approx. 1,00 g/cm³ at 20 °C
Solubility in water: Emulsifiable
Viscosity, dynamic: 1.621 mPa.s at 20 °C
Velocity gradient 1/s

10) STABILITY AND REACTIVITY

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

11) TOXICOLOGICAL INFORMATION

Acute toxicity:
LD₅₀ oral, rat: > 5000 mg/kg
LD₅₀ dermal, rat: > 5000 mg/kg
LC₅₀ inhalation, rat: 1,64 mg/l
Exposure time: 4 h
Highest attainable concentration.

Irritation of the skin, rabbit: Non-irritant

Irritant to the mucous membranes, rabbit: Non-irritant

Skin sensitising, guinea-pig: Not a skin sensitizer (Buehler Patch test and Magnusson & Kligman test).

12) ECOLOGICAL INFORMATION

Fish toxicity:
(pyrethrins) LC₅₀: 0.0052 mg/l (96 h), Rainbow trout (*Oncorhynchus mykiss*)
(piperonyl butoxide) LC₅₀: 3,94 mg/l (96 h), Sheepshead minnow (*Cyprinodon variegatus*)

Toxicity for Daphnia: (pyrethrin) EC₅₀: 0,012 mg/l (48 h) *Daphnia magna*
(piperonyl butoxide) EC₅₀: 0,51 mg/l (48 h) *Daphnia magna*

13) DISPOSAL CONSIDERATIONS

Product disposal: 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.

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

14) TRANSPORT INFORMATION

UN No: 3082
Class: 9
IMDG: -
Ems: F-A, S-F

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MFAG: -

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS SOLUTION)

Declaration for sea shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS SOLUTION)

Declaration for shipment by air: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS SOLUTION)

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: Pyrethrins including cinerins
Piperonyl butoxide

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.

WHO Classification: III (Slightly hazardous)

16) OTHER INFORMATION

Text of R-phrases mentioned in Section 3:

R20: Harmful by inhalation.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R22: Harmful if swallowed.

R36: Irritating to eyes.

R41: Risk of serious damage to eyes.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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 information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the product's properties.

Consult the label for directions 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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