



AQUAPY EW165 12X1L BOT GB

Version 1 / F
102000011789

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Revision Date: 13.01.2006
Print Date: 15.02.2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name AQUAPY EW165 12X1L BOT GB
Product code (UVP) 06477402
Usage insecticide
Company Bayer Environmental Science
16, rue Jean-Marie Leclair
69009 Lyon
France

Emergency telephone number +33(0)4.72.85.25.25
Telefax +33(0)4.72.85.27.99
Numéro INRS +33(0)1.45.42.59.59

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Emulsion, oil in water (EW)
Pyrethrin/Piperonyl butoxide 30:135 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	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	R36, R48/20, R51/53	> 1,00 - < 5,00

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice

Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or a simple body milk. When symptoms persist or in all cases of doubt seek medical advice.



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Eye contact

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

Ingestion

Do not induce vomiting. Wash out mouth with water. Keep at rest. Obtain medical attention.

Notes to Physician

Symptoms

Local:, After skin contact: paresthesia (local).

Symptoms

Systemic:, dizziness, headache, anorexia, apathy, nausea, muscular fasciculation

Risks

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

Treatment

Local treatment:
Initial treatment should be symptomatic and supportive.
After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

Treatment

Systemic treatment:
In the event of a mouthful or more being ingested, the following measures should be considered:
Endotracheal intubation should be done and gastric lavage performed, 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.
Recovery: Spontaneous.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Extinguishing media which must not be used for safety reasons

high volume water jet

Specific hazards during fire fighting

In case of fire the evolution of dangerous gases is possible.

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
Wear self contained breathing apparatus for fire fighting if necessary.

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.



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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 discharge into the drains/surface water/groundwater.

Methods for Cleaning Up

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).
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

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.

Advice on protection against fire and explosion

No special precautions required.

Storage

Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.
Store in a place accessible by authorized persons only.
Keep away from direct sunlight.
Protect against frost.

Storage stability

Storage temperature 0 - 30 °C

Suitable materials

HDPE (high density polyethylene)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (VME)	2003	INRS (FR)

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Pyrethrins including cinerins	8003-34-7	5 mg/m ³ (TWA)	05 2003	EU ELV
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Personal protective equipment

Respiratory Protection	No personal respiratory protective equipment normally required. 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 6 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. Remove soaked protective clothing immediately. Remove soiled clothing immediately. Clean hands and face at work intervals and after work. Work in an adequately ventilated room.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	emulsion
Colour	white to light yellow
Odour	slight, specific odour

Safety data

pH	<= 6 at 100 % (20 °C)
Density	ca. 1,004 g/cm ³ at 20 °C
Water Solubility	emulsifiable

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.

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Hazardous Reactions No hazardous reactions when stored and handled according to prescribed instructions.
Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (rat) > 5.000 mg/kg
Test conducted with a similar formulation.

Acute Inhalation Toxicity LC50 (rat) > 1,64 mg/l
Exposure time: 4 h
Test conducted with a similar formulation.

Acute Dermal Toxicity LD50 (rat) > 5.000 mg/kg
Test conducted with a similar formulation.

Skin Irritation No skin irritation. (rabbit)
Test conducted with a similar formulation.

Eye Irritation No eye irritation. (rabbit)
Test conducted with a similar formulation.

Sensitization Non-sensitizing. (mouse)
OECD Test Guideline 429, local lymph node assay (LLNA)

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**Elimination information (persistence and degradability)**

Bioaccumulation Bluegill sunfish
Bioconcentration factor (BCF): 471
The value mentioned relates to the active ingredient pyrethrin.

Bioaccumulation Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 260
The value mentioned relates to the active ingredient piperonyl butoxide.

Ecotoxicity effects

Toxicity to Fish LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 0,0052 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pyrethrin.

Toxicity to Fish LC50 (*Cyprinodon variegatus* (sheepshead minnow)) 3,94 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient piperonyl butoxide.

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Toxicity to daphnia	EC50 (Daphnia) 0,012 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient pyrethrin.
Toxicity to daphnia	EC50 (Water flea (Daphnia magna)) 0,51 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient piperonyl butoxide.

13. DISPOSAL CONSIDERATIONS**Product**

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

Contaminated packaging

Rince empty containers and dispose of them through the ADIVALOR collection organization or another specific collection system. Smaller packagings (consumer products) can also be disposed of through the cost-free Dual Collection System (Green Dot).

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-No	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS SOLUTION)

IMDG

UN-No	3082
Class	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS SOLUTION)

IATA

UN-No	3082
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS SOLUTION)



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15. REGULATORY INFORMATION

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

Classification:

Labelling according to EEC Directive

Hazardous components which must be listed on the label:

- Pyrethrins including cinerins
- Piperonyl butoxide

Symbol(s)

N Dangerous for the environment

R-phrases(s)

R51/53 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.

Classement France (décision d'autorisation de mise sur le marché)

Symbol(s)

Xi Irritant

R-phrases(s)

R37 Irritating to respiratory system.
R43 May cause sensitization by skin contact.
AQUA Dangereux pour les organismes aquatiques
DABE Dangereux pour les abeilles et autres insectes pollinisateurs

S-phrases(s)

S 2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S20/21 When using do not eat, drink or smoke.
S24 Avoid contact with skin.
S36 Wear suitable protective clothing.
S37 Wear suitable gloves.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

Législation des Installations Classées pour la Protection de l'Environnement (Loi du 19/07/76 modifiée et Décret du 10/08/05)

Rubrique n° 1173 : Stockage et emploi de substances dangereuses pour l'environnement (toxiques pour les organismes aquatiques)

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36 Irritating to eyes.



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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 provided in this safety data sheet has been provided according the requirements from the French modified decree "arrêté du 5 janvier 1993". This sheet complements the technical sheet but does not replace it. The information contained in this sheet is based on knowledge of the product at the date of publication and is given in good faith. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The user is fully responsible for taking all the necessary precautions whilst using the product. The aim of the statutory regulations indicated is to help the user to fulfil his obligations regarding the use of hazardous products. This list should not be considered as exhaustive. It does not exonerate the user from fulfilling other existing legal obligations in addition to those mentioned, relating to the use and storage of the product. This remains solely the responsibility of the user.

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