



## Bayer Environmental Science

**AQUAPY EW30/150**

Version 1  
Revision Date 27.08.2003

GB  
102000001394

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name : AQUAPY EW30/150  
 Product code : AE F027198 04 EW17 A1  
 Specification : 21275  
 Usage : insecticide  
 Company : Bayer Environmental Science  
 Durkan House  
 214-224 High Street  
 Waltham Cross  
 Hertfordshire EN8 7DP  
 United Kingdom

Telephone : +44(0)1992 784270  
 Telefax : +44(0)1992 784276

Emergency telephone number : 0800-220876 ( UK only )  
 +44(0)1223-870312

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

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

**Hazardous components**

| Chemical Name                 | CAS-No.    | Symbol(s): | R-phrases)           | Concentration [%] |
|-------------------------------|------------|------------|----------------------|-------------------|
| pyrethrins including cinerins | 8003-34-7  | Xn, N      | R20/21/22<br>R50/53  | 3.00              |
| Piperonyl butoxide            | 51-03-6    | N          | R50/53               | 13.50             |
| Cetyl alcohol                 | 36653-82-4 | Xi         | R36/37/38            | > 1.00 - < 5.00   |
| Nonylphenol ethoxylate        |            | Xn         | R22<br>R36/38<br>R53 | > 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.



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**4. FIRST AID MEASURES**

- General advice : Remove contaminated, soaked 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 simple toilet milks. When symptoms persist or in all cases of doubt seek medical advice.
- 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, nausea, anorexia, apathy, muscular fasciculation
- Risks : This product/preparation 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, for children 2-5 mg intravenously repeated as necessary until fully sedated  
There is no antidote.  
Contraindication: atropine  
Contraindication: derivatives of adrenaline  
Recovery: Spontaneous.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : water spray  
alcohol-resistant foam  
dry chemical



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carbon dioxide (CO<sub>2</sub>)

- Extinguishing media which must not be used for safety reasons : Product itself is non-combustible; fire extinguishing measures to suit surroundings.
- 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 bunding area with sand or earth.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid contact with spilled product or contaminated surfaces.  
When dealing with a spillage do not eat, drink or smoke.
- Environmental precautions : Keep people and animals away.  
Do not discharge into the drains/surface water/groundwater.  
If spillage enters drains leading to sewage works inform local water company immediately.  
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).
- Methods for cleaning up : Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).  
Transfer collected material to heavy duty plastic drums and keep safe for disposal.  
Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations
- 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.  
Provide good ventilation of working area (local exhaust ventilation if necessary).



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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.

Further information on storage conditions : Keep away from direct sunlight. Protect against frost.

Storage temperature : 0 - 30 °C

Suitable materials : Keep in original packaging, tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : Chemical resistant gloves  
PVC gloves  
nitrile gloves

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Light protective clothing, PVC  
PVC boots

Hygiene measures : When using, do not eat, drink or smoke.  
Remove soaked 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 : Liquid  
Colour : yellowish, opaque  
Odour : characteristic

**Safety data**

pH : < 6.0



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|   |   |
|---|---|
|   | Note: Determined in the undiluted form  |
| Flash point                             | : > 70 °C<br>Method: closed cup   |
| Density                                 | : ca. 1.00 g/cm <sup>3</sup> at 20 °C   |
| Water solubility                        | : Note: Miscible  |
| Partition coefficient (n-octanol/water) | : log Pow: 4.3 - 5.9<br>Note: The value mentioned relates to the active ingredient pyrethrin.     |
| Partition coefficient (n-octanol/water) | : log Pow: 4.75<br>Note: The value mentioned relates to the active ingredient piperonyl butoxide. |
| Other information                       | : The product is not combustible.   |

**10. STABILITY AND REACTIVITY**

|                     |  |
|---------------------|--|
| Conditions to avoid | : Note: Extremes of temperature and direct sunlight.   |
| Materials to avoid  | : None   |
| Hazardous reactions | : No hazardous reactions when stored and handled according to prescribed instructions.<br>Note: Stable under recommended storage conditions. |

**11. TOXICOLOGICAL INFORMATION**

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (rat) > 5,000 mg/kg   |
| Acute inhalation toxicity | : LC50 (rat) > 1.64 mg/l<br>Exposure time: 4 h<br>Remarks: Highest attainable concentration. |
| Acute dermal toxicity     | : LD50 (rat) > 5,000 mg/kg   |
| Skin irritation           | : rabbit<br>Result: No skin irritation   |
| Eye irritation            | : rabbit<br>Result: No eye irritation  |
| Sensitization             | : guinea pig<br>Result: non-sensitizing<br>Method: OECD Test Guideline 406, Buehler test     |
| Further information       | : The toxicological data refer to a similar formulation.                                     |



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**12. ECOLOGICAL INFORMATION**

**Elimination information (persistence and degradability)**

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

**Ecotoxicity effects**

Toxicity to fish : LC50: 0.0052 mg/l  
Rainbow trout (*Oncorhynchus mykiss*)  
Exposure time: 96 h  
Test substance: The value mentioned relates to the active ingredient pyrethrin.

Toxicity to fish : LC50: 0.01 mg/l  
Bluegill sunfish  
Exposure time: 96 h  
Test substance: The value mentioned relates to the active ingredient pyrethrin.

Toxicity to fish : LC50: 0.016 mg/l  
*Cyprinodon variegatus* (sheepshead minnow)  
Exposure time: 96 h  
Test substance: The value mentioned relates to the active ingredient pyrethrin.

Toxicity to fish : LC50: 6.12 mg/l  
Rainbow trout (*Oncorhynchus mykiss*)  
Exposure time: 96 h  
Test substance: The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to fish : LC50: 5.37 mg/l  
Bluegill sunfish  
Exposure time: 96 h  
Test substance: The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to fish : LC50: 3.94 mg/l  
*Cyprinodon variegatus* (sheepshead minnow)  
Exposure time: 96 h  
Test substance: The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to daphnia : EC50: 0.012 mg/l  
Daphnia  
Exposure time: 48 h  
Test substance: The value mentioned relates to the active ingredient pyrethrin.

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- Toxicity to daphnia : EC50: 0.51 mg/l  
Water flea (Daphnia magna)  
Exposure time: 48 h  
Test substance: The value mentioned relates to the active ingredient piperonyl butoxide.
- Toxicity to algae : EC50: > 9.1 mg/l  
Algae  
Exposure time: 72 h  
Test substance: The value mentioned relates to the active ingredient piperonyl butoxide.
- Toxicity to other organisms : LD50: > 2,000 mg/kg  
Bobwhite quail  
Test substance: The value mentioned relates to the active ingredient pyrethrin.
- Toxicity to other organisms : LD50: > 2,250 mg/kg  
Bobwhite quail  
Test substance: 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  
Can be landfilled or incinerated, when in compliance with local regulations.  
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste.  
Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.
- Waste key for the unused product : 020108 agrochemical waste containing dangerous substances

**14. TRANSPORT INFORMATION**

|                 |                          |   |
|-----------------|--------------------------|---|
| <b>ADR/RID/</b> | : UN-No                  | <b>3082</b>   |
| <b>ADNR</b>     | Labels                   | 9   |
|                 | Packaging group          | III   |
|                 | Hazard no.               | 90  |
|                 | Description of the goods | UN 3082 ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S.<br>( PYRETHRINS SOLUTION ) |



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|                |                              |   |
|----------------|------------------------------|---|
| <b>IMDG</b>    | : UN-No                      | <b>3082</b>   |
|                | Class                        | 9   |
|                | Packaging group              | III   |
|                | EmS                          | NONE  |
|                | Marine pollutant             | P   |
|                | Description of the goods     | ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S.<br>( PYRETHRINS SOLUTION ) |
| <b>IATA</b>    | : UN-No                      | <b>3082</b>   |
|                | Class                        | 9   |
|                | Packaging group              | III   |
|                | Description of the goods     | Environmentally hazardous substance, liquid,<br>n.o.s.<br>( PYRETHRINS SOLUTION ) |
| <b>CDG CPL</b> | : UN-No                      | <b>3082</b>   |
|                | Class                        | 9   |
|                | Packaging group              | III   |
|                | Hazard identification number | 90  |
|                | Emergency action code        | 2X  |
|                | Proper shipping name         | ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS)               |

**15. REGULATORY INFORMATION**

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3.

Hazardous components which must be listed on the label:

- pyrethrins including cinerins
- Piperonyl butoxide

Exceptional labelling of special preparations : Restricted to professional users.  
To avoid risks to man and the environment, comply with the instructions for use.

Further information : WHO-classification: III (Slightly hazardous)

|             |          |   |
|-------------|----------|---|
| Symbol(s):  | : N      | Dangerous for the environment   |
| R-phrase(s) | : R51/53 | 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 containment to avoid environmental contamination.                           |



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**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.
- R22 Harmful if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R36/38 Irritating to eyes and skin.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 May cause long-term adverse effects in the aquatic environment.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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