

## ACTELLIC EC

Version 6

Revision Date 25.01.2005

Print Date 25.01.2005

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

#### PRODUCT INFORMATION

**Product name** : ACTELLIC EC  
**Design Code** : A5832B  
**Use** : Insecticide  
**Company** : Syngenta Crop Protection AG  
 Postfach  
 CH-4002 Basel  
 Switzerland  
  
**Telephone** : +41 61 323 11 11  
**Telefax** : +41 61 323 12 12  
**Emergency telephone number** : +44 1484 538444



Harmful



Dangerous for the environment

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
pirimiphos-methyl	29232-93-7	249-528-5	Xn, N	R22 R50/53	48.5 % W/W
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-w-hydroxy-	9016-45-9		Xi	R41 R52/53	0 - 5 % W/W
solvent naphtha (petroleum), light arom.	64742-95-6	265-199-0	Xn, N	R10 R37 R51/53 R65 R66 R67	40 - 50 % W/W
benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	247-557-8	Xi	R38 R41	0 - 5 % W/W

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

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**3. Hazards identification**

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

Flammable.

Harmful if swallowed.

Irritating to eyes and respiratory system.

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

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

**4. FIRST AID MEASURES**

**General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.

**Inhalation** : Remove to fresh air.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician or Poison Control Center immediately.

**Skin contact** : Take off contaminated clothing and shoes immediately.  
Wash off immediately with soap and plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.

**Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.

**Ingestion** : If swallowed, seek medical advice immediately and show this container or label.  
Do not induce vomiting.

**Symptoms** : The symptoms are of cholinesterase inhibition

**Medical advice** : Call Syngenta at the emergency number shown in this document, a poison control center or doctor immediately for treatment advice.  
Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube)  
Administer atropine sulfate, either by intramuscular or intravenously, dependant on severity of poisoning  
Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin

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**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media** : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
alcohol-resistant foam
- Extinguishing media which must not be used for safety reasons** : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting** : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.  
Flash back possible over considerable distance.
- Special protective equipment for fire-fighters** : In the event of fire, wear self-contained breathing apparatus.
- Further information** : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.  
Keep people away from and upwind of spill/leak.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Remove all sources of ignition.  
Pay attention to flashback.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up** : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

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**7. HANDLING AND STORAGE****HANDLING**

**Advice on safe handling** : Avoid contact with skin and eyes.  
When using, do not eat, drink or smoke.  
Take precautionary measures against static discharges.  
Use only in an area containing flame proof equipment.  
For personal protection see section 8.

**STORAGE**

**Requirements for storage areas and containers** : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feed.  
Keep away from heat and sources of ignition.  
Keep away from combustible material.  
Keep in an area equipped with sprinklers.  
No smoking.

**Other data** : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Components	Exposure limit(s)	Value type	Source
pirimiphos-methyl	3 mg/m <sup>3</sup>	8 h TWA	SYNGENTA
solvent naphtha (petroleum), light arom.	100 mg/m <sup>3</sup>	8 h TWA	SUPPLIER

#### ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

#### PERSONAL PROTECTIVE EQUIPMENT

- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : A combination gas, vapor and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection** : Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
- Eye protection** : If eye contact is possible, use tight-fitting chemical safety goggles.
- Skin and body protection** : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)  
Wear as appropriate:  
dust impervious protective suit

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	: clear liquid
<b>Colour</b>	: light brown
<b>Flash point</b>	: 38 °C
<b>Density</b>	: 1.03 g/cm <sup>3</sup> at 20 °C
<b>Water solubility</b>	: Miscible

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**10. STABILITY AND REACTIVITY**

<b>Hazardous decomposition products</b>	: Combustion or thermal decomposition will evolve toxic and irritant vapors.
<b>Hazardous reactions</b>	: None known. Hazardous polymerization does not occur. Stable under normal conditions.

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**11. TOXICOLOGICAL INFORMATION**

<b>Acute oral toxicity</b>	: LD50 male Rat, 1,522 mg/kg : LD50 female Rat, 1,732 mg/kg
<b>Acute dermal toxicity</b>	: LD50 Rat, > 2,000 mg/kg
<b>Skin irritation</b>	: Rabbit: slight
<b>Eye irritation</b>	: Rabbit: moderately irritant
<b>Sensitization</b>	: Guinea Pig not sensitizing
<b>Long term toxicity</b>	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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**12. ECOLOGICAL INFORMATION****ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

<b>Bioaccumulation</b>	: Pirimiphos-methyl has high potential for bioaccumulation
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- Stability in water** : Pirimiphos-methyl is not persistent in water
- Stability in soil** : Pirimiphos-methyl is not persistent in soil
- Mobility** : Pirimiphos-methyl has low mobility in soil.

**ECOTOXICITY EFFECTS**

- Toxicity to fish** : LC50 Rainbow trout, ca. 1.3 mg/l , 96 h
- Toxicity to aquatic invertebrates** : EC50 Daphnia magna (water flea), 0.0005 mg/l , 48 h
- Toxicity to algae** : ERC50 Algae, 2.4 mg/l , 72 h

**13. DISPOSAL CONSIDERATIONS**

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging** : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken for local recycling or waste disposal.  
Do not re-use empty containers.

**14. TRANSPORT INFORMATION****Land transport***ADR/ RID:*

UN-No: 1993  
Class: 3  
Danger Label Number : 3  
Packaging group III  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
( SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL 50% )

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### Sea transport

#### IMDG:

UN-No: 1993  
 Class: 3  
 Danger Label Number : 3  
 Packaging group: III  
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 ( SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL 50% )

Marine pollutant : Marine pollutant

### Air transport

#### IATA-DGR

UN-No: 1993  
 Class: 3  
 Danger Label Number : 3  
 Packaging group: III  
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 ( SUBSTITUTED BENZENOID HYDROCARBONS AND  
 PIRIMIPHOS-METHYL 50% )

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

Hazardous components which must be listed on the label:

- pirimiphos-methyl
- solvent naphtha (petroleum), light arom.

<b>Symbol(s)</b>	: Xn N	Harmful Dangerous for the environment
<b>R-phrases(s)</b>	: R10 R22 R36/37 R51/53  R65  R67	Flammable. Harmful if swallowed. Irritating to eyes and respiratory system. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

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<b>S-phrase(s)</b>	: 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.
	S35	This material and its container must be disposed of in a safe way.
	S57	Use appropriate container to avoid environmental contamination.
	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

**Note** : The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

### 16. OTHER INFORMATION

#### Further information

Text of R phrases mentioned in Section 2:

<b>R10</b>	Flammable.
<b>R22</b>	Harmful if swallowed.
<b>R37</b>	Irritating to respiratory system.
<b>R38</b>	Irritating to skin.
<b>R41</b>	Risk of serious damage to eyes.
<b>R50/53</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R52/53</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R65</b>	Harmful: may cause lung damage if swallowed.
<b>R66</b>	Repeated exposure may cause skin dryness or cracking.
<b>R67</b>	Vapours may cause drowsiness and dizziness.

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