

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

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

PRODUCT INFORMATION

Product name : ACTELLIC 50 EC
Design Code : A5832C
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 : +44 1484 538444
E-mail address : safetydatasheetcoordination@syngenta.com



Harmful



Dangerous for the environment

2. HAZARDS IDENTIFICATION

Flammable liquid and vapour
 Harmful if swallowed.
 May be fatal if swallowed and enters airways.
 May cause an allergic skin reaction.
 Causes serious eye damage.
 May cause drowsiness or dizziness.
 Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrases(s)	Concentration
pirimiphos-methyl	29232-93-7	249-528-5	Xn, N	R22 R50/53	50 % 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

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	247-557-8	Xn	R10 R37/38 R41 R67	5 - 10 % W/W
--	------------	-----------	----	-----------------------------	-----------------

* Substances for which there are Community workplace exposure limits.
For the full text of the R-phrases mentioned in this Section, see Section 16.

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** : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or Poison Control Centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
Wash off immediately with plenty of water.
- 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

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

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 shall 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** : Wear full protective clothing and 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.

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 spillage, and then collect 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.

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

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 feedingstuffs.
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.

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
pirimiphos-methyl	3 mg/m ³	8 h TWA	SYNGENTA
solvent naphtha (petroleum), light arom.	100 mg/m ³	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 gas and vapor filter 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 should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable material
Nitrile rubber

Eye protection : If eye contact is possible, use tight-fitting chemical safety goggles and a face shield.

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

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:
impervious protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : clear liquid
Colour : light brown
Flash point : 48 °C

Autoignition temperature : > 400 °C

Oxidizing properties : not oxidizing

Explosive properties : Not explosive

Density : 1.02 g/ml at 20 °C

Solubility in other solvents : Miscible
in Water

Surface tension : 35.3 mN/m at 25 °C

10. STABILITY AND REACTIVITY

Hazardous decomposition products : Combustion or thermal decomposition will evolve toxic and irritant vapors.

Hazardous reactions : None known.
Hazardous polymerization does not occur.
Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 female Rat, 300 - 2,000 mg/kg
GHS-Classification
Category 4

Aspiration toxicity : Aspiration hazard if swallowed - can enter lungs and cause damage.
GHS-Classification
Category 1
Derived from components.

ACTELIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

- Acute inhalation toxicity** : Vapours may cause drowsiness and dizziness.
GHS-Classification
Category 3
Derived from components.
- Acute dermal toxicity** : LD50 male and female Rat, > 2,000 mg/kg
GHS-Classification
None
- Skin irritation** : Rabbit: Mildly Irritating
GHS-Classification
None
- Eye irritation** : Rabbit: Moderately irritating
GHS-Classification
Category 1
- Sensitisation** : guinea pig: A skin sensitizer in animal tests.
GHS-Classification
Category 1
- Long term toxicity**
pirimiphos-methyl : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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

- Bioaccumulation** : Pirimiphos-methyl has high potential for bioaccumulation
- 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 Cyprinus carpio (Carp), 6.2 mg/l , 96 h
GHS-Classification
Category 2
- Toxicity to daphnia and other aquatic invertebrates.** : EC50 Daphnia magna (Water flea), 0.48 µg/l , 48 h
GHS-Classification
Category 1
- Toxicity to algae** : EbC50 Pseudokirchneriella subcapitata (green algae), 3.07 mg/l , 72 h

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

: ErC50 Pseudokirchneriella subcapitata (green algae), 8.27 mg/l , 72 h
GHS-Classification
Category 2

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 to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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

UN-Number: 1993
Class: 3
Labels: 3
Packaging group III
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL)

Sea transport*IMDG:*

UN-Number: 1993
Class: 3
Labels: 3
Packaging group: III
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL)

Marine pollutant : Marine pollutant

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

Air transport*IATA-DGR*

UN-Number: 1993
Class: 3
Labels: 3
Packaging group: III
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Hazardous components which must be listed on the label:

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

Symbol(s)	: Xn N	Harmful Dangerous for the environment
R-phrase(s)	: R10 R22 R37 R41 R43 R50/53 R65 R67	Flammable. Harmful if swallowed. Irritating to respiratory system. Risk of serious damage to eyes. May cause sensitisation by skin contact. 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.

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

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.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S35	This material and its container must be disposed of in a safe way.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	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.

Note : The product is classified and labelled in accordance with Directive 1999/45/EC.

Special labelling of certain preparations : To avoid risks to man and the environment, comply with the instructions for use.

GHS-Labeling

Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 2nd revised edition

Pictogram



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H336 May cause drowsiness or dizziness.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : P102 Keep out of reach of children.
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/protective

ACTELLIC 50 EC

Version 10

Revision Date 20.03.2009

Print Date 20.03.2009

P301 + P312	clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container to .?

Remarks : Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.

Hazardous components which must be listed on the label:

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

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3:

R10	Flammable.
R22	Harmful if swallowed.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
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.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

Product names are a trademark or registered trademark of a Syngenta Group Company.