

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Tradename **ACTELLIC 50EC**
 Design Code **A5832C**
 AGI Code **37122**

COMPANY/UNDERTAKING IDENTIFICATION

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2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

CAS-NO.	EC-NO.	CHEMICAL NAME	CONCENTRATION (% w/w)	HAZARD SYMBOLS	RISK PHRASES (R)
29232-93-7	249-528-5	pirimiphos-methyl	50	Xn,N	22, 50/53
64742-95-6	265-199-0	solvent naphtha (petroleum), light aromatic	40–50	Xn,N	10, 20, 36/37/38, 51/53, 65
26264-06-2	247-557-8	benzenesulphonic acid, dodecyl-, calcium salt	5–10	Xn	10, 37/38, 41, 67

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

3. HAZARDS IDENTIFICATION

Harmful by inhalation and if swallowed. Irritating to eyes and respiratory system. Harmful: may cause lung damage if swallowed. May cause sensitisation by skin contact. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 Centre 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 Centre 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.

INSECTICIDE

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 centre or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate, either by intramuscular or intravenously, dependant on severity of poisoning. Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.

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: Use 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.

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Components	Exposure limit(s)	Value type	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 vapours 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

When using this product refer to the label for details. In all other cases, use the following 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 particulate 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 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: No special protective equipment required. Select skin and body protection based on the physical job requirements.

I N S E C T I C I D E

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown clear liquid
Oxidising Properties:	Not oxidising
Flash Point:	48°C
Explosive Properties:	Not explosive
Density:	1.02 g/ml at 20°C
Surface Tension:	35.3 mN/m at 25°C
Water Solubility:	Soluble
Solubility in other solvents:	Miscible in water

10. STABILITY AND REACTIVITY

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

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

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD₅₀: female rat, 1,732 mg/kg, male rat, 1,522 mg/kg. The toxicological data has been taken from products of similar composition.

Acute Dermal Toxicity: LD₅₀: rat, >2,000 mg/kg. The toxicological data has been taken from products of similar composition.

Skin Irritation: Rabbit: Slightly Irritating. The toxicological data has been taken from products of similar composition.

Eye Irritation: Rabbit: Moderately Irritating. The toxicological data has been taken from products of similar composition.

Sensitisation: Guinea pig: Not a skin sensitiser in animal tests. The toxicological data has been taken from products of similar composition.

LONG-TERM TOXICITY: 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 Rainbow trout, 1.3 mg/l, 96 h. Based on test results obtained with similar product.

Toxicity to Aquatic Invertebrates: EC₅₀ *Daphnia magna* (water flea), 0.5 µg/l, 48 h. Based on test results obtained with similar product.

Toxicity to Algae: ErC₅₀ *Pseudokirchneriella subcapitata* (green algae), 7.4 mg/l. Based on test results obtained with similar product.

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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**ROAD/RAIL/MARITIME TRANSPORT ADR/RID/IMDG/IATA**

Class	UN number	Packaging group
3	1993	III

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S., (SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL)

15. REGULATORY INFORMATION

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

Hazard symbols/ Classifications	Xn N	HARMFUL DANGEROUS FOR THE ENVIRONMENT
Risk phrases (R)	10 20/22 36/37 41 43 50/53 65	Flammable. Harmful by inhalation and if swallowed. Irritating to eyes and 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.
Safety phrases (S)	2 13 20/21 35 57 62	Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Use appropriate containment to avoid environmental contamination. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Special label		To avoid risks to man and the environment, comply with the instructions for use.

I N S E C T I C I D E**16. OTHER INFORMATION**

Always read the label. Use pesticides safely.

Product approval number: MAPP 12726.

Based on edition 21/07/06, version 9. Changes to concentration in section 2, Toxicological data in sections 12 and 13 and updated PSN in section 14.

Text of R phrases mentioned in Section 2:

R10	Flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
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 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
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.