

Material Safety Data Sheet



Transportation and Medical Emergency Phone: 1-800-535-5053 (INFOTRAC)

General Phone: 317-580-8282

EPA Reg. Number: 71711-4-67690

Creation Date: 08/22/2002

Revision Date: 05/10/2006

Akari® 5SC Miticide/Insecticide

SePRO Corporation Carmel, IN 46032

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Akari 5SC Miticide/Insecticide

COMPANY IDENTIFICATION:

SePRO Corporation

11550 North Meridian Street, Suite 600

Carmel, IN 46032

www.sepro.com

Information Phone: 317-580-8282 (Monday - Friday, 8:00 am to 5:00 pm EST)

2. HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW

- White liquid with no discernable odor
- High acute toxicity to aquatic organisms (fish, invertebrates, and daphnids)
- Skin and eye irritant

EMERGENCY PHONE NUMBER: 800-535-5053

3. COMPOSITION / INFORMATION ON INGREDIENTS

Fenpyroximate:	CAS# 134098-61-6	5%
<i>tert</i> -butyl (<i>E</i>)- α -(1,3-dimethyl-5-phenoxy-pyrazol-4-ylmethylene-aminoxy)- <i>p</i> -toluate		
Inert Ingredients†		95%

†Contains petroleum distillates

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth to mouth. Call a poison control center or doctor for further treatment advice.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, foam, dry chemical, and carbon dioxide.

SPECIAL FIRE-FIGHTING PROCEDURE: Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Due to the danger of acute toxicity to aquatic organisms, avoid permitting extinguishing media (such as water, foam, and dry chemicals) to flow into ponds, rivers and lakes.

UNUSUAL FIRE OR EXPLOSION HAZARD: None

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide and nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

Liquid spills on the floor or other impervious surfaces should be contained or diked and then absorbed with sawdust, sand, bentonite or other absorbent clay. Collect contaminated absorbent and place in a metal drum. Thoroughly scrub floor or other impervious surfaces with a strong industrial-type detergent and rinse with water.

Liquid spills that soak into the ground should be dug up and placed in metal drums. When a large spill or leakage is found, wear protective clothing and self-breathing apparatus to avoid surplus contact.

Avoid contaminated absorbents or water flow into ponds, rivers and lakes due to the danger of acute toxicity to aquatic organisms.

7. HANDLING AND STORAGE

Handling Precautions:

- Avoid contact with skin, eyes or clothing.
- Do not eat, drink, smoke or chew gum or tobacco while handling this product and until hands and face are thoroughly washed with soap and water.
- Do not use the toilet before thoroughly washing hands.
- Remove contaminated clothing immediately and wash thoroughly before reuse.

Storage Precautions:

- Keep container closed. Store in original container.
- Keep container at room temperature or store in a cool place.
- Protect from excess heat.

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary under certain confined conditions.

PERSONAL PROTECTIVE EQUIPMENT:

- **EYE PROTECTION:** Wear protective eyewear (safety glasses, goggles or face shield) to prevent eye contact.
- **SKIN PROTECTION:** Wear long-sleeved shirt, long pants, shoes plus socks and chemical resistant gloves (such as nitrile or butyl) to prevent skin contact. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment. Wash thoroughly after handling.
- **RESPIRATORY PROTECTION:** Avoid breathing mist. Use approved respiratory protection equipment when handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White liquid with no discernable odor.

SPECIFIC GRAVITY: 1.018 (20° C)

pH: 6.19 (1% suspension)

Viscosity: 384 mPa s (50 - 100) at 25° C

10. STABILITY AND REACTIVITY

FLASH POINT: None

FLAMMABLE POINT: None

AUTO IGNITION: None

STORAGE STABILITY: This product is stable for at least 3 years under normal warehouse conditions

INCOMPATIBILITY WITH OTHER MATERIALS: Not known.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Causes reversible eye irritation.

SKIN CONTACT: Can cause moderate skin irritation. Harmful if absorbed through the skin. Did not cause skin sensitization in animal studies.

INGESTION: No specific health effects are known for ingestion of a small amount incidental to routine handling and use.

INHALATION: Inhalation of high concentration of this product causes signs of respiratory and secretory irritation.

CHRONIC (cancer information): There is no evidence of carcinogenic potential in either the rat or mouse study resulting in the carcinogenicity classification of "not likely to be carcinogenic to humans".

The relationship of these results in animal studies to humans has not been fully established because any accidental or intentional ingestion of this chemical in humans have not been reported.

Oral:	Rat LD ₅₀	Male: 7193 mg/kg	Category III
		Female: 6789 mg/kg	
Dermal:	Rat LD ₅₀	Male: > 4000 mg/kg	Category III
		Female: > 4000 mg/kg	
Inhalation:	Rat LD ₅₀	Male: 1.9 mg/l (4hrs)	Category III
		Female: 2.4 mg/l (4hrs)	
Eye irritation:	Rabbit	Moderate to severe, reversible, ocular irritant	Category II
Skin irritation:	Rabbit	Not a dermal irritant	Category IV
Skin sensitization:	Guinea pig:	Non-sensitizing	N/A

The following data was developed with Fenpyroximate Technical, the active ingredient:

SUBCHRONIC (TARGET ORGAN EFFECTS): Results from 90-day rat studies in both sexes showed that at 100 and 500 ppm animals had impaired growth performance, reduced food intake, and decreased body weights and body weight gains.

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CHRONIC CANCER INFORMATION: In two year feeding studies with fenpyroximate in rats, no organotoxic effects were observed at dose levels up to 150 ppm. At dose levels of 75 and 150 ppm in both male and female rats, reduced body weight gains were seen. Fenpyroximate had no significant effect on mortality and was not carcinogenic at any of the doses tested. Similar results were observed in dogs administered up to 15 mg/kg/day. Fenpyroximate was not oncogenic in mice at dose levels up to 800 ppm.

TERATOGENICITY (BIRTH DEFECTS): Fenpyroximate Technical demonstrated no treatment-related teratogenic effects in rabbits at oral dose levels up to 5 mg/kg/day, nor in rats at dose levels up to 5 mg/kg/day.

REPRODUCTIVE EFFECTS: Fenpyroximate Technical demonstrated no adverse effects on reproductive performance in a two-generation rat reproduction study at dietary doses up to 100 ppm.

NEUROTOXICITY: An acute delayed neurotoxicity study in hens displayed no evidence of neurotoxicity to the test animal. Similarly, teratology and reproduction studies in rats and rabbits display zero neurotoxicity.

MUTAGENICITY (GENETIC EFFECTS): Fenpyroximate Technical was not mutagenic or genotoxic when tested in the Ames gene mutation assay, Chinese hamster V79 Forward Mutation, mouse micronucleus and cultured human lymphocytes for chromosomal aberration, nor in the Unscheduled DNA Synthesis assay.

12. ECOLOGICAL INFORMATION

This product is very highly toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

Do not apply this product through any type of irrigation system.

Users of this product MUST refer to the product labeling at the time of pesticide applications.

13. DISPOSAL CONSIDERATIONS

GENERAL DISPOSAL GUIDELINES: Any disposal practice must be made in compliance with all Federal, State, and local laws and regulations. State and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemical additions, processing, storage, or

otherwise altering this material may make the waste disposal information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Excess pesticide and rinsate should be disposed of according to label instructions and/or local regulations. Dispose of the used container according to local regulations.

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at approved disposal facilities. Excess liquid, spray tank, or wastewater, containing fenpyroximate should not be released into rivers, ponds, or lakes due to the danger of acute toxicity to aquatic vertebrates and invertebrates.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: None

DOT SHIPPING LABEL: None

TSCA Inventory: Registered Pesticide; exempt from TSCA.

15. REGULATORY INFORMATION

Follow all regulations in your country.

16. OTHER INFORMATION, USES AND RESTRICTIONS

REVISED: 05/10/2006, By: ASDR

The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult SePRO Corporation for Further Information.

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