



Conforms to HazCom 2012/United States

SAFETY DATA SHEET



Akari® 5SC

Miticide/Insecticide

Section 1. Identification

GHS product identifier : Akari 5SC Miticide/Insecticide
Product Description : Suspension Concentrate
EPA Registration No. : 71711-4-67690

Supplier's details : SePRO Corporation
11550 North Meridian Street
Suite 600
Carmel, IN 46032 U.S.A.
Tel: 317-580-8282
Toll free: 1-800-419-7779
Fax: 317-580-8290
Monday - Friday, 8am to 5pm [E.S.T.](http://www.sepro.com)
www.sepro.com

Emergency telephone number (with hours of operation) : INFOTRAC - 24-hour service 1-800-535-5053

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

Section 2. Hazards identification

Classified according to OSHA 29 CFR 1910.1200 HCS

Classification: Eye Irritation: Category 2A
Acute Toxicity (Inhalation): Category 4

Signal Word: **WARNING**





Hazard Statements: Causes serious eye irritation
Harmful if inhaled

Precautionary Statements:

Prevention: Wash thoroughly after handling.
Wear eye protection/face protection.
Avoid breathing mists, vapors, and/or sprays.
Use only outdoors or in a well-ventilated area.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Removed contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

Section 3. Composition/information on ingredients

Chemical Name	CAS Number	Percentage
Fenpyroximate CAS Name: Benzoic acid, 4-((((1,3-dimethyl-5-phenoxy-1H-pyrazol-4-yl)methylene)amino)oxy)methyl)-, 1,1-dimethylethyl ester, (E)-	134098-61-6	5.0%
Propylene glycol	57-55-6	1 – 10%
*Other ingredients		85 - 94%

*Specific chemical identity and percentage of composition withheld as a trade secret

Section 4. First aid measures

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

Skin Contact 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. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Most important symptoms and effects, both acute and delayed Refer to Section 11 – Toxicology Information

Note to Physician All treatments should be based on observed signs and symptoms of distress

Section 5. Fire-fighting measures

Suitable extinguishing media:	Water spray, foam, dry chemical, and carbon dioxide
Unsuitable extinguishing media:	No information available.
Special protective equipment and precautions for fire-fighters:	Firefighters and others who may be exposed should wear fully 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, flow into ponds, rivers, and lakes.
Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products)	Carbon dioxide, carbon monoxide, and nitrogen oxides

Section 6. Accidental release measures

General and Disposal:	Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with federal or local disposal regulations (see Section 13). Notify the appropriate authorities immediately (see Section 15 for any applicable Reportable Quantity (RQ)). Report to authorities if water enters watercourse or sewer.
Land Spill or Leak:	<p>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 it in a metal drum. Thoroughly scrub the floor or other impervious surface with a strong industrial-type detergent and rinse with water.</p> <p>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 respirator to avoid exposure.</p> <p>Avoid contaminated absorbents or water flow into ponds, rivers, and lakes, due to the danger of acute toxicity to aquatic organisms.</p>

Section 7. Handling and storage

Notify the appropriate authorities immediately (see Section 15 for any applicable Reportable Quantity). Also report to authorities if contamination of waterways has occurred.

Handling Precautions:

- Open container with care.
- Use adequate ventilation.
- Avoid handling near an open flame or heat source or ignition source.
- Do not contaminate water by cleaning of equipment or disposal of waste.
- 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.
- Avoid storage in direct sunlight, excessive heat or cold.

Section 8. Exposure controls/personal protection

Engineering Controls (Local exhaust): Ventilation may be necessary under certain confined conditions. If practical, use ventilation at the sources of air contamination. Control airborne contaminants below the exposure guidelines (see below for any applicable OSHA / ACGIH exposure limits).

Personal Protective Equipment (PPE):

Eye/Face Protection: Wear protective eyewear (safety glasses; for chemical workers, 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 Barrier Laminate or Viton®) to prevent skin contact. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment. Wash thoroughly after handling.

Respiratory Protection: Ensure good ventilation. Avoid breathing mist. If ventilation is inadequate, use approved respiratory protection equipment (combination or gas/vapor respirator) when handling large quantities or handling large spills.

Exposure Limits:

Ingredient:	ACGIH TLV	OSHA PEL
None	--	--

Section 9. Physical and chemical properties

Appearance	Whitish liquid
Physical state	Liquid
Odor	Weak ester-like odor
Odor threshold	No information available
pH	6.19 (1% suspension)
Melting point/freezing point	Melting point: 100-101°C (Technical Grade Active Ingredient - TGAI)
Initial boiling point and boiling range	Boiling point cannot be evaluated (TGAI)
Flash point	>98°C
Evaporation rate	No data
Flammability (solid, gas)	TGAI is not highly flammable
Upper/Lower flammability or explosive limits	Not explosive
Vapor pressure	<1.0 x 10 ⁻⁵ Pa (TGAI)

Density	1.03 g/mL
Relative density	1.25 g/cm ³ (TGAI)
Solubility(ies) in water	21.4 ± 1.6 µg/L (pH 5) (TGAI) 23.1 ± 2.8 µg/L (pH 7) (TGAI) 29.8 ± 4.6 µg/L (pH 9) (TGAI)
Auto-ignition temperature	495°C
Decomposition temperature	No data
Viscosity	384 mm ² /s (cSt)

Section 10. Stability and reactivity

Reactivity	No data
Chemical stability	This product is stable for at least 3 years under normal warehouse conditions.
Possibility of hazardous reactions	No data
Conditions to avoid	No data
Incompatible materials	No data
Hazardous decomposition products	Combustion or thermal decomposition will evolve toxic oxides of carbon and nitrogen (CO ₂ , CO, NO _x).

Section 11. Toxicological information

The following data were developed using Akari 5SC:

Acute Studies:

Oral LD ₅₀ (rat):	Male: 7,193 mg/kg Female: 6,789 mg/kg
Dermal LD ₅₀ (rat):	Male: > 2,000 mg/kg Female: > 2,000 mg/kg
Inhalation LC ₅₀ (rat):	Male: 1.9 mg/l (4 hrs) Female: 2.4 mg/l (4 hrs)
Eye irritation (rabbit):	Moderately irritating – eye irritant
Skin irritation (rabbit):	Little or no irritant effect
Skin sensitization (guinea pig):	Non Sensitizing

The following data were developed using fenpyroximate technical:

Subchronic and Chronic Effects:

Fenpyroximate technical was shown to have no target organ effects in the 90-day animal studies. Effects of decreased body weight and food consumption were observed in rats at 7.4 mg/kg/day and in dogs at 2 mg/kg/day.

In long-term chronic studies no target organ toxicity was observed. Reduction in body weight was seen at 3.4 mg/kg/day in the rat in a 2-year study. Similarly weight loss was observed after a one-year exposure to dogs at 15 mg/kg/day and after an 18-month exposure to mice at 9.5 mg/kg/day



- Cancer Effects:** Fenpyroximate was tested in lifetime studies in rats and mice and was not carcinogenic.
- Teratogenicity (Birth Defects):** Fenpyroximate technical demonstrated no developmental toxicity in the rabbit at dose levels up to 5 mg/kg/day or in rats also at 5 mg/kg/day.
- Reproductive Effects:** Fenpyroximate demonstrated no adverse effects on reproductive performance in a two-generation rat reproduction study. The highest dose tested (6.6 – 8.6 mg/kg/day) resulted in decreased weight gain in both the parents and offspring.
- Neurotoxicity:** At 150 and 300 mg/kg, a decrease in the mean auditory reaction score and the mean body weight was observed in female rats. In the male rats at 24 hours, a decrease in the mean body temperature occurred. Several rats of both sexes were observed with hunched posture at 300 mg/kg. There were reductions in motor activity assessment in the total time spent in movement for the female rats at 150 and 300 mg/kg and for males at 300 mg/kg. All behavioral changes were apparently reversible. The no observed adverse effect level (NOAEL) for neurotoxicity is 300 mg/kg.
- Immunotoxicity:** Markedly low weight gain and low water intake in both sexes at 300 ppm. No effect on the immune function. The no observed effect level (NOEL) is 300 ppm.
- Mutagenicity (Genetic Effects):** Fenpyroximate was not mutagenic when tested in a battery of five different test systems.
- Toxicity of other components:** None

Section 12. Ecological information

Ecological data were developed using fenpyroximate technical.

Environmental Precautions: 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 wash water or rinsate.

Section 13. Disposal considerations

General Disposal: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State (provincial) 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.

Refer to appropriate federal (RCRA: 40 CFR.261), state/provincial, or local requirements for proper classification information. For regulatory information on the ingredient components, see Section 15.

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.



Container Disposal: Nonrefillable container: Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable container: Refill the container with pesticide only. Do not reuse the container for any other purpose. Clean container before refilling.

Section 14. Transport information

DOT:	Not regulated.
IATA:	UN 3082, Environmentally hazardous substance, liquid, n.o.s, (fenpyroximate), Class 9, PG III.
IMDG:	UN 3082, Environmentally hazardous substance, liquid, n.o.s, (fenpyroximate), Class 9, PG III, Marine Pollutant, EmS: F-A; S-F.

Akari 5SC is **not regulated for transport** unless shipped by water, air.

Section 15. Regulatory information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

WARNING Causes substantial but temporary eye injury.
Harmful if swallowed.
Harmful if absorbed through skin.
Harmful if inhaled.

U.S. Federal Regulatory Information:

EPA Registration Number: 71711-4

TSCA Inventory: Registered Pesticide; exempt from TSCA

SARA Title III Notification and Information:

Section 302 (EHS) Ingredients: None

**Section 304 (EHS) or
CERCLA Ingredients (RQ):** None

Section 313 Ingredients: None

U.S. State Regulatory Information:

U.S. State Right-to-Know (RTK) Ingredients:



New Jersey
Pennsylvania

CAS #: 57-55-6 – propylene glycol (1,2-PROPANEDIOL)
CAS #: 57-55-6 – propylene glycol (1,2-PROPANEDIOL)

California Proposition 65 List:

None

Section 16. Other information**HMIS® Hazard Rating:**

Health: 1
Flammability: 0
Physical Hazard: 1

NFPA Hazard Rating:

Health: 1
Flammability: 0
Reactivity: 0
Specific Hazard: N/A

Prepared by: Regulatory Affairs

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Reason for Editing: Updated Section 14.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.