

Material Safety Data Sheet



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

General Phone: 317-580-8282

EPA Reg. Number: 5481-476-67690

Revision Date: 01/16/2009

Ornazin® 3% EC Botanical Insecticide

SePRO Corporation Carmel, IN 46032-4565

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Ornazin 3% EC Botanical Insecticide

COMPANY IDENTIFICATION:

SePRO Corporation

11550 North Meridian Street, Suite 600

Carmel, IN 46032-4565

www.sepro.com

Information Phone: 317-580-8282 (Mon – Fri, 8 am to 5 pm EST)

If there will be a delay in getting medical attention, rinse the eyes for at least another 15 minutes.

INHALATION: Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately. Be sure the contact areas are clean to prevent contamination of the rescuer.

INGESTION: Immediately dilute the swallowed product by giving large quantities of water, but do not induce vomiting. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Never give anything by mouth to an unconscious person. Contact a physician immediately.

SKIN: Immediately flush all affected areas with larger amounts of clear water for at least 15 minutes. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Wash clothing before reuse. If skin irritation develops, contact a physician immediately.

NOTES TO PHYSICIAN: Treat symptomatically. Contact your local POISON CONTROL Center for more information.

2. HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW

- **WARNING!**
- May cause eye irritation. May cause skin irritation. May cause skin sensitization. May cause central nervous system depression (CNS).
- Contains a combustible liquid.

EMERGENCY PHONE NUMBER: 1-800-535-5053

POTENTIAL HEALTH EFFECTS

Route(s) of Entry: Potential routes of entry include skin and eye contact, ingestion, and inhalation of mists.

Signs of Acute Overexposure: May cause skin and eye irritation. May cause skin sensitization. May cause central nervous system depression (CNS).

Signs of Chronic Overexposure: None known.

Carcinogenicity: None of the components of this product are known to be carcinogenic.

Medical Conditions Aggravated By Exposure: None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Wt. %
Azadirachtin	11141-17-6	3.0%
Inert Ingredients		97.0%

4. FIRST AID MEASURES

EYES: Immediately flush the eyes with copious amount of clear, cool running water for minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point (TCC): 165°F (74°C)

Autoignition Temperature: 540°F (282°C)

Flammable Limits:

Lower flammable limit: 1.5%

Upper flammable limit: 9.7%

EXPLOSIVITY

Mechanical Impact: Will not occur

Static Discharge: Will not occur

HAZARDOUS COMBUSTION PRODUCTS

Incomplete combustion of this product may result in fumes and vapors of unknown composition. Stay upwind in case of fire.

EXTINGUISHING MEDIA

Foam, carbon dioxide, dry chemical, water fog, water spray.

FIRE FIGHTING INSTRUCTIONS

Do not breathe fumes. Wear complete fire fighting gear, including protective gloves, eye protection, and self-contained breathing apparatus. Wash clothes before reuse.

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6. ACCIDENTAL RELEASE MEASURES

GENERAL: Evacuate personnel and thoroughly ventilate the area. Use adequate ventilation and appropriate personal protective equipment (PPE, Section 8). Keep bystanders upwind and away from the spill.

SMALL SPILL: Cover with absorbent (clay, sawdust, straw, kitty litter, etc.), to absorb the liquid. Sweep into an open drum. Clean the area with common powdered household detergent and a stiff brush and just enough water to make a slurry. Absorb and sweep into the same open drum. Rinse with water, absorb, and add to the waste drum. Close the drum and dispose of properly.

LARGE SPILL: Dike the spill to prevent contamination of local water sources. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Clean the area as described for a small spill.

7. HANDLING AND STORAGE

HANDLING: Wear recommended personal protective equipment (PPE) (See Section 8). Avoid breathing fumes or spray. Avoid contact with skin, eyes, or clothing. Wash PPE after each day of use and before reuse. Wash hands and face thoroughly after use.

STORAGE: Store product in original container in a secure, dry and temperate area. Do not freeze. Do not store above 100°F. Do not use, pour, spill or store product near heat or open flame. Keep container closed when not in use. Do not store near food, feed, fertilizers, or seeds. Do not use or store around the home. Avoid contact with water. Keep away from children and pets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide fresh air or general ventilation during formulation, mixing, application and after application.

RESPIRATORY PROTECTION: There is no specific requirement for respiratory protection with this product. However, if misting or high vapor concentrations are present and ventilation is poor, a properly FIT-TESTED NIOSH/MSHA approved respirator fitted with organic vapor cartridges may be required. Specific use regulations are listed on the label.

SKIN PROTECTION: Long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks are required when working with this product. If there is a possibility of splashing or spillage, a chemical-resistant apron or chemical resistant coverall should also be worn.

EYE PROTECTION: Safety goggles or a face shield should be worn when working with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear brown liquid

ODOR: Slightly pungent odor

ODOR THRESHOLD: Not Determined

BOILING POINT: approx. 178°C (334°F)

FREEZING/MELTING POINT: Not determined

SPECIFIC GRAVITY: 1.08

DENSITY: 9.01 lb/gal

EVAPORATION RATE: 0.03 (relative to n-butyl acetate = 1.00)

VAPOR PRESSURE (mm Hg): 0.20

VAPOR DENSITY: Not available

PERCENT VOLATIVE BY VOLUME: Not determined

SOLUBILITY (water): Emulsifies

SOLUBILITY (other): Soluble in alcohols and low molecular weight ketones.

pH: 4.2 - 4.4 as 5% solution

PARTITION COEFFICIENT (O/W): Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): This product is stable under normal storage and use conditions. Avoid high temperatures and direct sunlight during storage.

INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: None known from normal decomposition. Partial combustion may result in carbon monoxide and carbon dioxide, as well as unknown compounds.

HAZARDOUS POLYMERIZATION: This product will not polymerize.

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11. TOXICOLOGICAL INFORMATION

INGESTION: Oral LD₅₀ (rat) >5,050 mg/kg

INHALATION: Inhalation LC₅₀ (rat) >2.6 mg/L

DERMAL: Skin LD₅₀ (rabbit) >5,050 mg/kg

IRRITATION:

Eye: Moderate irritant (Toxicity Category II)

Skin: Slight irritant (Toxicity Category IV)

SENSITIZATION:

Skin sensitization: Sensitizer
(Guinea pig)

TERATOGENICITY: No evidence is available to indicate this product will be teratogenic.

MUTAGENICITY: No evidence is available to indicate this product will be mutagenic.

CARCINOGENICITY: None of the components of this product have been found to be carcinogenic.

REPRODUCTIVE TOXICITY: May cause reproductive toxicity based on animal data for the solvent.

TOXICOLOGY SYNERGISTIC PRODUCTS: No information is available.

12. ECOLOGICAL INFORMATION

GENERAL: This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed on site or at an approved waste disposal facility. Contact Federal, State, and local agencies for further information on disposal.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer container for recycling or reconditioning, or puncture and dispose in a sanitary landfill or by other approved methods. Contact Federal, State, and local agencies for further information on disposal.

14. TRANSPORT INFORMATION

DOT Class: Not Regulated

UN Number: Not Regulated

IMDG Class (sea): Not Regulated

IATA Class (air): Not Regulated

Marine Pollutant: No

Packing Group: Not Regulated

Hazard label(s): Not Regulated

ADR Class (road): Not Regulated

Proper Shipping Name(s): Not Regulated

Reportable Quantity: No

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

CANADIAN REGULATIONS: This product is not registered in Canada.

SARA TITLE III DATA:

Section 311 & 312 Hazard Categories:

Immediate Health Hazard: Yes

Delayed Health Hazard: Yes

Fire Hazard: Yes

Reactive Hazard: No

Sudden Pressure Release Hazard: No

Section 302 Extremely Hazardous Substance: None

Section 313 Toxic Chemicals: None

CERCLA/EPCRA REPORTABLE QUANTITIES (RQ): None

STATE REGULATIONS:

CALIFORNIA (Proposition 65): None

OTHERS: None

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16. OTHER INFORMATION

MSDS STATUS:

New – 11/15/01

Revised – 05/21/04

Revised – 01/16/09 (AMVAC121205):

Sections 2 - 16

This information is provided for the limited guidance to the user. While SePRO Corporation believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.