

AZATIN® O BIOLOGICAL INSECTICIDE

EPA Registration Number: 70051-9-59807

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

Product identifier

Product name : AZATIN® O
EPA Registration No. : 70051-9-59807
Product type : Botanical Insecticide
Active Ingredient : Azadirachtin
CAS No. : Not applicable

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Insecticide
Uses advised against : Any use not listed on the label

Details of the supplier of the safety data sheet

Company information : OHP, Inc.
 PO Box 51230
 Mainland, PA 19451
 (800) 659-6745

Website : ohp.com

Emergency telephone number

TRANSPORTATION EMERGENCY (24 hours a day) call : Chemtrec: 1-800-424-9300
MEDICAL EMERGENCY (24 hours a day) and Product Information call : 1-800-356-4647

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Classification : Not classified as hazardous

Signal Word : None

Hazard Statements : None

Pictogram : None

Precautionary Statements : Avoid contact with eyes, skin or clothing. Harmful if swallowed. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

Combustible : Do not use or store near heat or open flame.

Other Hazards : None specified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% W:W
Azadirachtin Tech 15%	11141-17-6, 95507-03-2	30
Isopropanol	67-63-0	30
Surfactant blend	proprietary	40

4. FIRST AID MEASURES

Description of first aid measures

Generic measures

Eye Contact : Immediately flush with water holding eye open for 15-20 minutes. Remove contact lenses after 5 minutes if present and continue rinsing eye. Seek medical attention if irritation persists.

Skin Contact : Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation persists call poison control or doctor for treatment advice

Inhalation : Move to fresh air. If still feeling unwell, with label in hand call poison control or doctor for treatment advice

Ingestion : If ingested, with label in hand call poison control or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

Most important symptoms and effects, both acute and delayed

Eye, skin and throat irritation.

Indication of any immediate medical attention and special treatment needed

None specified

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing

Media : Dry chemical, carbon dioxide, alcohol or polymer foam

Unsuitable Extinguishing

Media : None specified

Special hazards arising from the substance or mixture

Combustible liquid

Hazardous combustion products

. : None known

Advice for firefighters

Protection of Firefighters . . : None specified

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

. : Goggles or safety glasses are suggested

Long sleeved shirt, long pants,

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chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or poly-vinyl chloride, shoes and socks

For emergency responders: Same as above

Environmental precautions: This product is hazardous to fish and aquatic vertebrates. For terrestrial uses: Do not apply directly to water, or 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 wash water or rinse water.

Methods and material for containment and cleaning up

Methods for Containment: Do not use in a manner that would allow drift or rinse water from equipment cleaning to contaminate water sources or supplies.

Methods for Clean-Up: Wear SCBA, rubber boots, and heavy rubber glove. Shut off sources of ignition. Dike around spill, adsorb on sand or similar, and place in closed containers for disposal. Ventilate area and wash spill site after material pick-up. Avoid run-off into storm sewers and ditches, which lead to waterways.

Other Information: None

Reference to other sections: See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Wear long pants, long sleeved shirt, chemical resistant gloves shoes plus socks, protective eyewear when handling this product.

Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing. Wash clothes separately before reuse.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Wash PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Conditions for safe storage, including any incompatibilities

Combustible, do not store near heat or flame

Specific end use(s)

Any labeled use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****OSHA Permissible Exposure**

Limits (PELs): Not determined

ACGIH Threshold

Limit Values: Not determined

Other Exposure

Limits: Not determined

Exposure controls

Engineering Controls: Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Personal Protective Equipment

Eye/Face Protection: Safety glasses or goggles

Skin Protection: Long sleeved shirt and long pants

Hand Protection: Chemical resistant gloves

Body Protection: Shoes plus socks

Respiratory Protection: None specified

Thermal Hazards: None known

General Hygiene

Considerations: After handling wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet

Environmental exposure

controls: Wear SCBA, rubber boots, and heavy rubber glove. Shut off sources of ignition. Dike around spill, adsorb on sand or similar, and place in closed containers for disposal. Ventilate area and wash spill site after material pick-up. Avoid run-off into storm sewers and ditches, which lead to waterways.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance: Dark brown liquid

Odour: Disinfectant

Odour Threshold: Not determined

pH: 5.0-6.0

Melting Point /

Freezing Point: Not determined

Initial Boiling Point: Not determined

Boiling Range: Not determined

Flash Point: 113°F 45°C

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Evaporation Rate : Not determined
Flammability (solid, gas) . . . : Not applicable
Lower & Upper Flammability Limits : Not determined
Vapour Pressure : Not determined
Vapour Density : Not determined
% Volatile by weight : 30%
Density : 0.903-998 g/ml
Solubility : Not determined
Partition Coefficient (n-octanol/water) : Not determined
Auto-ignition Temperature : Not determined
Decomposition Temperature : Not determined
Viscosity : Not determined
Other relevant properties : None
Other information
 Not available.

10. STABILITY AND REACTIVITY

Reactivity : Not determined
Chemical stability : Stable
Possibility of hazardous reactions : None known
Conditions to avoid : Keep away from heat, sparks, or open flame
Incompatible materials : Acids, acid chlorides, oxidizing agents, reducing metals, alkali metals
Hazardous decomposition products : None known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Toxicological information on the substance or mixture:

LD₅₀ (oral) LD₅₀ > 5000 mg/kg, rat

LD₅₀ (dermal) LD₅₀ > 2000 mg/kg, rat

LC₅₀ (inhalation) LC₅₀ > 2.0 mg/L

Skin corrosion / irritation : Slightly irritating, Toxicity Category IV

Eye irritation : Minimally irritating, New

Zealand white rabbits

Respiratory or skin

sensitization : Not considered to be a dermal sensitizer in guinea pigs.

Other information on adverse health effects:

Carcinogenicity

NTP Listed : Not applicable

IARC Listed : Not applicable

OSHA : Not applicable

Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

12. ECOLOGICAL INFORMATION

Toxicity

Test species	Test method	Test substance	LC ₅₀
Northern Bobwhite	Short term oral tox	Azadirachtin Technical	LC ₅₀ > 2000 mg/kg body weight
<i>Oncorhynchus mykiss</i>	96-hour flow through	Azadirachtin Technical	LC ₅₀ = 0.48 mg/L
<i>Daphnia magna</i>	48-hour flow through	Azadirachtin Technical	LC ₅₀ = 10 mg/L
<i>Apis mellifera</i> L	Acute contact tox	Azadirachtin Technical	LD ₅₀ > 25 µg/bee

Persistence and

degradability : Azadirachtin exhibits rapid degradation and low persistence in soil.

Bioaccumulative

potentia : Azadirachtin is not considered to accumulate in aquatic organisms such as fish.

Mobility in soil : Azadirachtin rapidly degrades in soil.

Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Instructions : Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage : Do not store about 100°F or below -20°F for extended periods of time. Keep containers tightly closed when not in use.

Pesticide Disposal : Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling : Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Tri-

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ple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Then offer for recycling, if available 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.

14. TRANSPORTATION INFORMATION**UN number** : Not regulated.**Proper Shipping Name:**

Ground Mode: Non-bulk package not regulated by DOT; Combustible liquid n.o.s. (isopropanol)

Vessel and air shipments: Flammable liquid, N.O.S. (isopropanol) , 3, UN1993, PGIII

Transport hazard class(es)**D.O.T.** : Not regulated in non-bulk packaging.**Packing group** : Not regulated.**Environmental hazards** : Not regulated.**Special precautions****for user** : Not regulated.**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

. : Not regulated.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

EPA : This product 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-pesticidal chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed or inhaled.

This product may be hazardous to fish and aquatic invertebrates.

OSHA : N/A**TSCA Status** : Exempt**CERCLA Reportable****Quantity** : N/A**SARA Title III:****Section 302** : N/A**Section 311/312** : N/A**Section 313** : N/A**RCRA Status** : N/A**16. OTHER INFORMATION****Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, neither OHP, Inc. nor any of its subsidiaries assume 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 material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SDS Authoring Information:**Revision date** : March 23, 2015**Date of Previous version** : February 17, 2012**Reason for Revision** : OSHA Hazard Communication Standard 2012

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