

ANCORA™

EPA Registration Number: 70051-19-59807

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

Product identifier

Trade name: ANCORA™
Product type: Microbial Insecticide
EPA Registration No.: 70051-19-59807
Active Ingredient: *Isaria fumosorosea*
 Apopka Strain 97
CAS No.: None

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

Identified uses: Biocontrol of insects and mites.
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 746
 Bluffton, SC 29910-0746
Phone Number: (800) 659-6745

Emergency telephone numbers

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

SDS Information or Request: ohp.com

2. HAZARDS(S) IDENTIFICATION

Classification of the substance or mixture

Hazard Classification: Not classified by OSHA
EPA Signal Word: Caution (see section 15)
Hazard Statements: None
Pictogram: None

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

Other Hazards: For outdoor non-greenhouse use do not apply when bees are actively foraging. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment wash water or

rinstate. Do not allow contamination of or discharge into lakes, ponds, or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified in the label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Component	CAS#	% by weight
<i>Isaria fumosorosea</i>	None	20
Apopka strain 97*		

4. FIRST AID MEASURES

Description of first aid measures

Generic measures

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. If product is diluted in accordance with the directions for use, gets on skin medical attention is not required.

Have product container or label with you when calling poison control or doctor or going for treatment.

Most important symptoms and effects, both acute and delayed

None specified

Indication of any immediate medical attention and special treatment needed

None specified

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable

Extinguishing Media: Water mist, alcohol resistant foam, dry powder, carbon dioxide

Unsuitable

Extinguishing Media: None known

Special hazards arising from the substance or mixture

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: See section 8 for personal protection equipment

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For emergency responders

See section 8 for personal protection equipment

disposed of on site or at an approved waste disposal facility.

Environmental precautions

For outdoor non-greenhouse use do not apply when bees are actively foraging. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not allow contamination of or discharge into lakes, ponds, or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified in the label.

Methods and material for containment and cleaning up

Methods for Containment

Recover free product. Use absorbent material to minimize runoff of product or mixed product.

Methods for Clean-Up

Sweep up and place in a chemical container. Seal the container and handle in an approved manner. Do not allow wash water to contaminate water supplies. Dispose of in accordance with Federal State and local regulations for disposal of non-hazardous waste.

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

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticides got inside. Then wash thoroughly and put on clean clothing.
- Remove 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

Keep unopened product refrigerated (40-50°F) and dry. Seal out moisture from unused material by closing the bag tightly after squeezing out excess air. Keep used product refrigerated in original package and use within 30 days after opening.

Specific end use(s)

Wastes resulting from the use of this product must be

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

: None specified

Personal Protective Equipment

Eye/Face Protection

: None specified

Skin Protection

: Long sleeved shirt,

long pants,

Shoes plus socks

Hand Protection

: None specified

Body Protection

: Long sleeved shirt,

long pants,

Shoes plus socks

Respiratory Protection

: Mixers, loaders, applicators and other handlers must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with prefix N-95, R-95 or P-95.

Follow manufacturers instructions for cleaning and maintaining PPE. If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry.

Thermal Hazards

: None known

General

Hygiene Considerations

: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticides got inside. Then wash thoroughly and put on clean clothing.

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

Environmental

exposure controls

: For outdoor non-greenhouse use do not apply when bees are actively foraging. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate

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water when disposing of equipment wash water or rinsate. Do not allow contamination of or discharge into lakes, ponds, or public waterways. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified in the label.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Appearance**: Tan granule
- Odour**: Bran
- Odour Threshold**: Not determined
- pH 1% dilution**: 6.3-6.9
- Melting Point / Freezing Point**: Not applicable
- Initial Boiling Point**: Not applicable
- Boiling Range**: Not applicable
- Flash Point**: Not determined
- Evaporation Rate**: Not applicable
- Flammability (solid, gas)**: Not determined
- Lower & Upper Flammability Limits**: Not determined
- Vapour Pressure**: Not applicable
- Vapour Density**: Not applicable
- Density**: 0.42-0.46 g/cc
- Solubility**: Not determined
- Partition Coefficient (n-octanol/water)**: Not determined
- Auto-ignition Temperature**: Not determined
- Decomposition Temperature**: Not determined
- Viscosity**: Not applicable
- Explosive Properties**: Not determined
- Oxidising Properties**: Not determined

Other information

Not available.

10. STABILITY AND REACTIVITY

- Reactivity**: None known
- Chemical stability**: Stable
- Possibility of hazardous reactions**: None known
- Conditions to avoid**: Warm temperatures reduce efficacy
- Incompatible materials**: None known
- Hazardous decomposition products**: None known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Toxicological information on the substance or mixture:

- LD₅₀ (oral)**: No toxicity or pathogenicity at an oral dose of 1.7 x 10⁶ CFU/g
- LD₅₀ (dermal)**: No evidence of systemic toxicity at a dose of 2g/animal
- LC₅₀ (inhalation)**: No toxicity or pathogenicity at an intratracheal dose of 10⁶ CFU/g

Skin corrosion / irritation: Slightly irritating

Eye irritation: Slightly and reversibly irritating.

Respiratory or skin sensitization: Not a dermal sensitizer.

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.

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12. ECOLOGICAL INFORMATION

Toxicity

Test species	Test method	Test substance	LC ₅₀
Northern bobwhite	Acute Tox 5 day	Active Ingredient	No evidence of toxicity or pathogenicity
Rainbow Trout (<i>Oncorhynchus mykiss</i>)	96-hour Static Acute	Active Ingredient	EC ₅₀ 96-hour > 14.7 x 10 ⁸ CFU/L
<i>Daphnia magna</i>	48-hour Static Acute	Active Ingredient	EC ₅₀ 48-hour > 14.7 x 10 ⁸ CFU/L
<i>Apis mellifera</i>	Oral and Contact Tox	<i>Isaria fumosorosea</i> Apopka Strain 97 20% WDG	LD ₅₀ contact > 20 µg a.i./bee LD ₅₀ oral > 21.63 µg a.i./bee

Persistence and degradability : Low persistence in soil.

Bioaccumulative potential : No bioaccumulation expected.

Mobility in soil : No data available.

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. : Keep unopened product refrigerated (40-50°F) and dry. Seal out moisture from unused material by closing the bag tightly after squeezing out excess air. Keep unused product refrigerated in the original package and use within 30 days after opening.

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

Container Handling : Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag 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.

UN proper shipping name : Not regulated.

Transport hazard class(es) : Not regulated.

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.

Harmful if swallowed, inhaled, or absorbed through the skin. Causes moderate eye irritation.

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 29, 2017