ISARID
WETTABLE POWDER MYCOINSECTICIDE
For Greenhouse, Nursery, Turfgrass, Golf Course, Commercial Livestock/Poultry, and Agricultural Uses

ACTIVE INGREDIENT
Isaria fumosorosea strain FE 9901* ........................................... 18.0%
OTHER INGREDIENTS .......................................................... 82.0%
TOTAL .................................................................................. 100.0%
*Contains a minimum of 2x10^9 colony forming units per gram of product (dry weight basis)

KEEP OUT OF REACH OF CHILDREN
CAUTION
See inside this booklet for additional Precautionary Statements, First Aid, complete Directions for Use and Warranty information.

MANUFACTURED FOR
Koppert Biological Systems, Inc.
1502 Old US 23
Howell, MI 48843

EPA Reg. No.: 89635-5
EPA Est. No.: 89635-CA-1
89635-MI-1

NET WEIGHT: 10 lbs. (4.5 kg)
 gallon of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor for treatment advice.

If the substance entered the eyes:

• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or in hair:

• Wash skin with plenty of soapy water or rinsate.
• Wash hair.

If swallowed:

• Have the product container or label with you when calling a poison control center or doctor, or when giving information about previous exposure.

• Do not induce vomiting unless told to by a poison control center or doctor.

If inhaled:

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

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment and washwater or rinsate.

Environmental Hazards:

• The spores are alive and may be harmful to humans and domestic animals. The dust may cause respiratory irritation.

• Protective eyewear and respiratory protection must be used when mixing or applying the product. Use of respirators may be required if dust cannot be completely avoided.

• The material may cause allergic sensitization in susceptible individuals. It is a respiratory allergen. People who are allergic to fungal spores may experience respiratory irritation on exposure to this product.

• Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

• Keep unauthorized persons out of treated areas until spray has dried or dust has settled.

Potential hazards to humans and domestic animals from exposure to Isarid are minimal. The product does not contain any pesticide chemicals that are harmful to humans or domestic animals. The active ingredient of Isarid consists of a microorganism and any substance that could affect its viability and performance. The microorganism is a fungus, strain FE 9901. The spores are alive and may be harmful to humans and domestic animals. The dust may cause respiratory irritation. Isarid is not known to be transmissible to humans. Isarid is not known to cause systemic effects.

Precautionary Statements

• Do not eat or drink while using or handling this product.

• Do not contaminate water when disposing of equipment and washwater or rinsate.

• Use of respirators may be required if dust cannot be completely avoided.

• Protective eyewear and respiratory protection must be used when mixing or applying the product. Use of respirators may be required if dust cannot be completely avoided.

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Application rates: 2 – 8 ounces of Isarid per 11,000 square feet of labeled food crops (2 – 8 oz of Isarid per 100 gallons of water). For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Soil Treatment At Planting: Dissolve Isarid in an appropriate volume of water and mix with a stirring device for a homogeneous suspension. Use a minimum of 0.1% solution (i.e., 16 oz of Isarid per 100 gallons of water). For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Backyard, Hand Held Sprayer or Tote Mounted Sprayer with Wand: Application to Soil at Blending: Any time prior to planting, incorporate 6 – 12 ounces of dry Isarid into 1 yard of potting soil during blending or mix 6 – 12 ounces of Isarid in 5 – 10 gallons of water and apply solution as a soil drench at a rate of 1 gallon of solution per 11,000 square feet of labeled food crops, ornamentals, turf, shrubs, and ornamental grasses. Use a minimum pressure of 40 psi to ensure proper distribution of the Isarid. For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Soil Drench at ½ – 2 pounds of Isarid per acre of labeled food crops (2 – 8 ounces of Isarid per 11,000 square feet of labeled food crops). Foliar Treatment: Upland cotton, lettuce, radish, peas, soybeans, field peas, lentils, beans, corn, sweet corn, tobacco, small grain crops, vegetables, tomatoes, cucumbers, melons, watermelons, and ornamental plants (including greenhouse). For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Safeguard Your Living Environment: Use at planting, seeding, or transplant. Apply 2 – 8 pounds of Isarid per acre of labeled food crops (2 – 8 ounces of Isarid per 11,000 square feet of labeled food crops). For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Hydroponic Systems: Use 6 – 16 ounces of Isarid in 50 – 100 gallons of water in a recirculatory or a dry hydroponic liquid system. Use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Civil Applications: Use in composting, for silage, bedding, as an ingredient in animal feed, nursery crop production, and agricultural waste disposal. Use all applications at a minimum pressure of 40 psi to ensure proper distribution of the Isarid. For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Agricultural Food Crops: For soil treatment or foliar application to fruits, vegetables, and herbs listed in the “Crops on Which Isarid May Be Used” section for suppression of whiteflies, aphids, thrips, psyllids, mealybugs, leaf hoppers, plant bugs, weevils, grasshoppers, Mormon crickets, locust, beetles, (including darkling beetles), mites (including russet and spider mites), bagrada bugs, lygus bugs, conopid flies, plant lice, including mealybugs, leaf hoppers, plant bugs, weevils, grasshoppers, Mormon crickets, locust, beetles, (including darkling beetles), mites (including russet and spider mites), bagrada bugs, lygus bugs, conopid flies, plant lice, and fungus gnats. For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Application Instructions: "For what is to be composted.

Soil Applications: Foliar Application: 1/10 – 1/5 pint of Isarid per 100 gallons of water. Use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Hydroponic Applications: Foliar Application: 1/2 – 3 pints of Isarid per 100 gallons of water. Use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

Chemigation: Use Isarid in an appropriate volume of water and mix with a stirring device for a homogeneous suspension. Use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).

For soil treatment or foliar application to fruits, vegetables, and herbs listed in the “Crops on Which Isarid May Be Used” section for suppression of whiteflies, aphids, thrips, psyllids, mealybugs, leaf hoppers, plant bugs, weevils, grasshoppers, Mormon crickets, locust, beetles, (including darkling beetles), mites (including russet and spider mites), bagrada bugs, lygus bugs, conopid flies, plant lice, including mealybugs, leaf hoppers, plant bugs, weevils, grasshoppers, Mormon crickets, locust, beetles, (including darkling beetles), mites (including russet and spider mites), bagrada bugs, lygus bugs, conopid flies, plant lice, and fungus gnats. For best results, use a non-ionic spreader-sticker in conjunction with application to foliar surfaces. Apply immediately using conventional conventional spraying equipment (ground, foliar, airblast, aerial) or apply through chemigation systems. Use a minimum pressure of 40 psi for manual or hand-held sprayers. Apply during low solar afternoon or early evening) when there is a high relative humidity and the temperature is below 86°F (30°C).
Spray Drift Management" sections of the label.

If applying by air, refer to the "Spray Drift Management" and "Special Considerations for Aerial Application.

Airblast Application:

- Miscellaneous:
  - Edible Fungi:
  - Tropical and Subtropical Fruit, Edible Peel:
  - Tree Nuts:
  - Pome Fruit:
  - Citrus Fruit:
  - Bulb Vegetables:
  - Root/Tuber Vegetables:
  - Legume Vegetables:
  - Mint:
  - Cucurbit Vegetables:
  - Oilseed:

- Peanut, tobacco, hops, and all crops grown for seed.
- Mushroom.
- Tropical and subtropical fruit.
- Avocado, mango, papaya, banana, plantain, and other tropical fruits.
- Almond, pistachio, pecan, walnut, filbert and other tree nuts.
- Apple, crabapple, pear, quince, mayhaw and other pome fruit.
- Orange, grapefruit, lemon, tangerine, tangelo, lime, pummelo and other citrus fruit.
- Berry, elderberry, currant, caneberry, and other berry and small fruit. When applying to cranberry, do not apply to flooded fields.
- Garlic, onion, leek, shallot, and other bulb vegetables.
- Nip, radish and other root/tuber vegetables.
- All other Brassica (Cole) vegetables.
- Peppermint, spearmint, and other mints.
- Sage, rosemary, thyme, dill, basil, oregano and other herbs and spices.
- Eggplant, sweet pepper, hot pepper, tomato, tomatillo and other fruiting vegetables.
- Alfalfa, clover, vetch, and trefoil.
- All other cereal grains, small grains, and corn. When applying to rice, do not apply to flooded fields.

The most effective way to reduce drift potential is to apply large droplets. The best drift management decisions and how they affect drift.

- Application height:
- Nozzle type:
- Nozzle orientation:
- Controlling Droplet Size:

For some use patterns, reducing the effective boom length to less than ¾ of the wing span for Aerial Application may help reduce drift.

Applications must not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. Temperature inversions are characterized by increasing temperatures with altitude and are common on calm nights. This cloud can move in unpredictable directions due to the light variable winds common during inversions.

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for the decreased air moisture present.

Special Considerations for Aerial Spray Drift Management

The following recommendations must be followed to avoid off-target drift movement when applying aerial sprays for agricultural food crops.

- Use 1 – 3 oz of Isarid per 12 gallons of water.
- Gnats
- Litter Beetles (Darkling, Hide and Carrion), Northern Fowl Mites, Red Poultry Mites, Moths, and other insects.

Aircraft Maintenance

Thoroughly wash aircraft, especially leading edge, each day after applying to sensitive areas. Do not apply to flooded fields. Do not use an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

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- Gnats
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Aircraft Maintenance

Do not apply in locations accessible to children, pets, domestic animals or wildlife. Do not apply where humans, pets, or livestock will be present. Do not apply to flooded fields. Do not apply to water. Do not apply to food or feed areas.

Use 1 – 3 oz of Isarid per 12 gallons of water.

- Gnats
- Litter Beetles (Darkling, Hide and Carrion), Northern Fowl Mites, Red Poultry Mites, Moths, and other insects.

Aircraft Maintenance

Do not apply in locations accessible to children, pets, domestic animals or wildlife. Do not apply where humans, pets, or livestock will be present. Do not apply to flooded fields. Do not apply to water. Do not apply to food or feed areas.

Use 1 – 3 oz of Isarid per 12 gallons of water.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent water source contamination from back flow.
3. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch that will stop the water injection pump when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Continuous agitation is not required in pesticide supply tanks unless tank mixing with other products or fluid fertilizers that require it.

**Application Instructions for All Types of Chemigation:**

- Application of Isarid may be made continuously for the duration of the water application or can be applied at the end or after the water application.
- For drip (Trickle) Chemigation Requirements:
  - The irrigation line or water pump must include a functional pressure switch that will stop the water injection pump when the water pump motor stops.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch that will stop the water injection pump when the water pump motor stops.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**Chemigation Requirements:**

- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch that will stop the water injection pump when the water pump motor stops.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**Storage and Disposal:**

- Do not contaminate water, food, or feed by storage or disposal.
- Store in a cool place out of direct sunlight.
- Properly dispose of the empty container and packaging materials by recycling, approved waste disposal facility, or burned, stay out of smoke. Do not burn, unless allowed by state and local ordinances. If burned, do not contaminate water, food, or feed by storage or disposal.
- Bag into application equipment. Then, offer for recycling if available, or dispose of empty bag in approved waste disposal facility.

**Warranty:**

- The Director for this product reflects the opinion of experts based on field and lab tests. The director or warrantee does not agree to be responsible for any monetary loss that may be occasioned by any incorrect statements in this manual. When the product is in accordance with this label and when used according to the label directions under normal growing conditions, warrantee that at the time of the first sale of this product it conforms to the chemical description on this label and is capable of being fitted with a system interlock. As warranted above, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of Koppert Biological Systems, Inc.
**ISARID**

WETTABLE POWDER MYCOINSECTICIDE

For Greenhouse, Nursery, Turfgrass, Golf Course, Commercial Livestock/Poultry, and Agricultural Uses

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EPA Est. No.: 89635-CA-1
89635-MI-1

NET WEIGHT
10 lb (4.5 kg)

BATCH CODE
See packaging

MANUFACTURED FOR
Koppert Biological Systems, Inc.
1502 Old US 23
Howell, MI 48843

**FIRST AID**

If on skin or clothing
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.

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

If in 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.

If swallowed
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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**HOTLINE NUMBER**
Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. For non-emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 am to 12:00 pm Pacific Time (NPIC Website: www.npic.orst.edu). For emergencies, call your local poison control center at 1-800-222-1222.

**KEEP OUT OF REACH OF CHILDREN**

CAUTION

See inside the booklet for additional Precautionary Statements, First Aid, complete Directions for Use and Warranty information.

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Isaria fumosorosea

strain FE 9901* 18.0%

OTHER INGREDIENTS

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TOTAL.

100.0%

*Contains a minimum of 2x10^9 colony forming units per gram of product (dry weight basis)

**PRECAUTIONARY STATEMENTS**

Hazards to Humans and Domestic Animals:

Caution. Harmful if absorbed through skin, or inhaled. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear protective eyewear, waterproof gloves, a long-sleeved shirt, long pants, shoes, and socks. Microbiologists and applicators must wear a minimum of a N95 approved disposable respirator with a face seal or greater. Goggles and disposable gloves are mandatory with use of any PPE. Respiratory protection is mandatory with use of any PPE. Wear properly fitted disposable gloves with each use. Follow the manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions are available for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

Remove clothing/PPE immediately if pesticide gets 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 Hazards:

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

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

Containers:

Do not disassemble or modify containers. Completely empty bags into application equipment. Then, offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.