



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 14, 2023

Mr. Timothy Joseph  
Regulatory Agent  
Babolna Bioenvironmental Centre Plc.  
c/o Landis International, Inc.  
P.O. Box 5126  
Valdosta, Ga. 31603

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Adding  
“Manufactured by” and other revisions to company address; updating company  
organization to “Plc.”; clarifying optional language on Sublabel B  
Product Name: Methograin IGR 300  
EPA Registration Number: 70062-9  
EPA Receipt Date: 01/24/2023  
Action Case Number: 00427056

Dear Mr. Joseph:

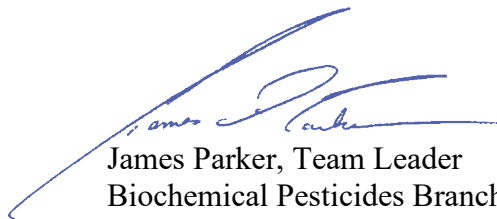
The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10.

The labeling submitted with this application has been stamped “Notification” and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

If you have any questions, please contact Nina Naimy via email at [naimy.nina@epa.gov](mailto:naimy.nina@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "James Parker", with a long, sweeping underline that extends to the left.

James Parker, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511M)  
Office of Pesticide Programs

Enclosure

[Optional Text – claims text appearing in brackets is optional text]

# METHOGRAIN® IGR 300

## SUBLABEL A

**NOTIFICATION**

70062-9

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/14/2023

[An Insect Growth Regulator]

[For protection of stored tobacco from damage by Cigarette Beetle, Tobacco Moth and other listed insect pests]

[An Insect Growth Regulator to control listed insect pests in tobacco processing and storage facilities]

**Active Ingredient:**

(S)-Methoprene (CAS No. 65733-16-6)..... 33.6%

**Other Ingredients\*:** ..... 66.4%

**TOTAL:** ..... 100.0%

\* This product contains petroleum distillates.

This product contains 2.5 lbs (S)-Methoprene active ingredient per gallon of product (300 grams/liter)

EPA Reg. No. 70062-9

EPA Est. No. 70062-HUN-1

Net Contents: 1 Liter (0.26 Gallons)

Date of Production / Batch Nr.:

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID**

<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.</li> </ul>

Have the product label or container with you when calling a poison control center or doctor or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday - Friday, 8 am to 12 pm Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)). For medical emergencies call your poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN:** Contains petroleum distillates – vomiting may cause aspiration pneumonia.

[See [front][side][back] of label for additional precautionary statements.]

[Manufactured][and][Registered] By:  
Babolna Bioenvironmental Centre ~~Ltd~~Plc.  
H-1107. Budapest, Szállás. U. 6  
Hungary

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARDS:** Do not contaminate water when disposing of rinsate or equipment washwaters.

**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical resistant gloves, such as neoprene rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), barrier laminate, or viton ( $\geq 14$  mils).

Follow manufacturer's 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.

**Engineering Controls Statements:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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.

**PRODUCT DESCRIPTION**

METHOGRAIN® IGR 300 is an emulsifiable formulation of the insect growth regulator (S)-methoprene. It is designed for use in aerosol generators and as a concentrate for use as an aqueous spray. (S)-methoprene, unlike traditional pesticides, does not immediately kill insects; instead, it interferes with the normal processes of insect development and prevents adult emergence. METHOGRAIN® IGR 300, when used according to label directions, controls the insect pests listed below [, that are affected by Insect Growth Regulators (IGR's)]:

Almond moth ( <i>Ephestia cautella</i> )	Indian meal moth ( <i>Plodia interpunctella</i> )
Cigarette beetle ( <i>Lasioderma serricorne</i> )	Lesser grain borer ( <i>Rhyzopertha dominica</i> )
Sawtooth grain beetle ( <i>Oryzaephilus surinamensis</i> )	Merchant grain beetle ( <i>Oryzaephilus mercator</i> )
Red flour beetle ( <i>Tribolium castaneum</i> )	Confused flour beetle ( <i>Tribolium confusum</i> )
Tobacco moth ( <i>Ephestia elute/la</i> )	Warehouse beetle ( <i>Trogoderma</i> spp.)

For any additional product information, please contact Apollo Solutions, LLC at 2101 Mystic Ridge Road, Knoxville, TN 37922, by phone, 847-340-9762.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply directly to tobacco being processed. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to protect agricultural plants on farms, forests, nurseries, or greenhouses.

Do not remain in treated areas and ventilate before re-entry. Leave the room closed for 30 minutes to allow spray or fog mist to settle before re-entry into the area.

**Application with Aerosol Generators:** Apply METHOGRAIN® IGR 300 as an ultra-low volume (ULV) mist or aerosol. Dilute with water or oil as required following the instructions of the spray equipment manufacturer. Apply METHOGRAIN® IGR 300 at the rate of 1 ml (1/30 fl oz) per 1,000 square feet of surface area or 3 ml (1/10 fl oz) per 10,000 cubic feet for fogging applications.

Close room or warehouse and shut off all ventilating systems. Apply the product as a fine mist in the air above the trays, shelves, and in areas where dust may accumulate. Do not remain in treated areas and ventilate before re-entry. Leave the room closed for 30 minutes to allow spray mist to settle before re-entry. Repeat application as required to suppress pest populations.

**Application as an Aqueous Spray:** To prepare a diluted spray solution, fill the mixing container with ½ gallon water, add 1 ml (1/30 fl oz) of METHOGRAIN® IGR 300, mix, and complete filling with a total of 1 gallon of water. Apply at a rate of 1 gallon of diluted solution per 1,000 square feet of surface area with any low-pressure sprayer typically used for indoor applications. Treat all areas that may harbor insect pests. Use diluted spray solution within 72 hours of mixing. Agitate solution before each use. Repeat application as required to suppress pest populations.

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place.

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

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for ten seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for ten 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.

#### WARRANTY AND CONDITIONS OF SALE

To the extent consistent with applicable law, seller makes no warranty concerning the use and handling of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

**METHOGRAIN® IGR 300****SUBLABEL B**

[An Insect Growth Regulator]

[To control listed insects in [stored cereal grains], [grain sorghum (milo)], [legumes], [canola], [corn], [popcorn], [birdseed], [peanuts], [sunflower seeds]]

**Active Ingredient:**

(S)-Methoprene (CAS No. 65733-16-6)..... 33.6%

**Other Ingredients\*:** ..... 66.4%**TOTAL:** ..... 100.0%

\* This product contains petroleum distillates.

This product contains 2.5 lbs (S)-Methoprene active ingredient per gallon of product (300 grams/liter)

EPA Reg. No. 70062-9

EPA Est. No. 70062-HUN-1

Net Contents: 1 Liter (0.26 Gallons)

Date of Production / Batch Nr.:

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**FIRST AID**

<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.</li> </ul>

Have the product label or container with you when calling a poison control center or doctor or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday - Friday, 8 am to 12 pm Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)). For medical emergencies call your poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN:** Contains petroleum distillates – vomiting may cause aspiration pneumonia.

[See [front][side][back] of label for additional precautionary statements.]

[Manufactured][and][Registered] By:  
Babolna Bioenvironmental Centre Ltd Plc.  
H-1107. Budapest, Szállás. U. 6  
Hungary

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**PRODUCT DESCRIPTION**

(S)-methoprene, the active ingredient in METHOGRAIN® IGR 300, protects stored grains, agricultural commodities, and seed from damaging insects by interfering with the normal process of insect development. Unlike traditional pesticides, METHOGRAIN® IGR 300 is not an adulticide, but its residual activity prevents the development of larvae into adults. When used according to the label directions, METHOGRAIN® IGR 300 inhibits growth of larvae of these insects: [(almond moth), (Indian meal moth), (cigarette beetle), (lesser grain borer), (sawtooth grain beetle), (merchant grain beetle), (red flour beetle), and (confused flour beetle)] and other [complete metamorphic] insect pests [that pupate][that are affected by Insect Growth Regulators (IGR's)]. Treat existing insect populations with an adulticide, then apply METHOGRAIN® IGR 300 for residual protection.

For any additional product information, please contact Apollo Solutions, LLC at 2101 Mystic Ridge Road, Knoxville, TN 37922, by phone, 847-340-9762.

**ENVIRONMENTAL HAZARDS:** Do not contaminate water when disposing of rinsate or equipment washwaters.

**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical resistant gloves, such as neoprene rubber (≥14 mils), nitrile rubber (≥14 mils), barrier laminate, or viton (≥14 mils).

Follow manufacturer's 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.

**Engineering Controls Statements:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Apply METHOGRAIN® IGR 300 to: cereal grains, corn, sunflower, canola, legumes, popcorn, wheat, spices, sorghum, rice, cocoa, peanuts, oats, millet and processed or non-processed commodities readied for packaging) for control of insect larvae. METHOGRAIN® IGR 300 may also be used to treat bulk non-medicated pet food, or birdseed. METHOGRAIN® IGR 300 may be applied to any seed stock. Treated commodities may be processed immediately.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to protect agricultural plants on farms, forests, nurseries, or greenhouses.

Do not remain in treated areas and ventilate before re-entry. Leave the room closed for 30 minutes to allow spray or fog mist to settle before re-entry into the area.

**DIRECTIONS FOR TREATMENT OF GRAIN BEING STORED:** For protection of listed grain, seeds used for oil, and seed stock against insects. For optimum results, thoroughly clean and treat storage areas prior to storing commodities.

**DILUTION INSTRUCTIONS:** Dilute METHOGRAIN® IGR 300 in water, or FDA-approved food grade oils, or soybean oil. Final water or oil dilution volume is 5 gallons of liquid per 1,000 bushels of grain and 10 gallons of liquid per 1,000 bushels of rice (or 21 fl oz per ton for grain, or 42 fl oz per ton for rice). Apply diluted product to the moving grain stream as a uniform coarse spray. Lower or greater volumes of diluent can be used but, it is important to assure that the commodity mass is uniformly treated. When using oil dilutions, apply at the oil manufacturer’s label application rates. Agitate water or oil solutions to ensure thorough mixing.

Apply METHOGRAIN® IGR 300 in solution in accordance with the dilution instructions above, to stored products using the following tables as a guide. A range of rates for different commodities is provided for flexibility to address varying storage periods and conditions. METHOGRAIN® IGR 300 may be applied at any rate within the specified range indicated on the tables. However, for maximum residual activity, use higher rates; the lower application rates provide shorter residual activity.

APPLICATION RATES (PER 1,000 BUSHEL)						
COMMODITY	High Rate		Moderate Rate		Low Rate	
	fl oz.	mL	fl oz.	mL	fl oz.	mL
Wheat	7.00	210	3.50	105	1.75	52
Corn	7.00	210	3.50	105	1.75	52
Sorghum (Milo)	7.00	210	3.50	105	1.75	52
Barley	6.00	180	3.00	90	1.50	45
Rice	6.00	180	3.00	90	1.50	45
Oats	4.00	120	2.00	60	1.00	30
Peanuts*	4.00	120	2.00	60	1.00	30
Sunflower	4.00	120	2.00	60	1.00	30

\* For peanuts, use water solution only.

**USE NOTES:**

- Apply METHOGRAIN® IGR 300 grain protectant only to grain of known treatment history.
- Check spray equipment calibration regularly to ensure proper application rates.
- Add the measured amount of METHOGRAIN® IGR 300 to a spray tank filled with ½ gallon of water or oil, mix, and complete filling with specified quantity of diluent. Keep mixed solution out of direct sunlight.



- Agitate before each use.
- Pre-treat storage facilities before filling with METHOGRAIN® IGR 300 treated commodities.
- METHOGRAIN® IGR 300 may be used in conjunction with aeration.
- METHOGRAIN® IGR 300 may be used in metering systems in conjunction with dust-controlling oils. Follow the equipment and oil manufacturers' directions; ensure that the label rate of METHOGRAIN® IGR 300 is applied uniformly.
- Applications of METHOGRAIN® IGR 300 to finished birdseed, or other finished products DO NOT require package labeling since the application is made to control pests in the package and no other claims are made on the final packaging.
- METHOGRAIN® IGR 300 may be tank-mixed with a suitable adulticide in diluted solutions or when fogging. When tank-mixing METHOGRAIN® IGR 300 with an adulticide, the more restrictive label applies.
- METHOGRAIN® IGR 300 can be used with dust-controlling oils or finishing oils used in bird feed.

**DIRECTIONS FOR TOP-DRESS TREATMENT OF STORED GRAIN:** Apply METHOGRAIN® IGR 300 as a top-dressing to stored grain placed in bins or storage areas. For top-dressing application, spray or fog the bin headspace paying particular attention to the top of the commodity mass, beams, ceilings, and rafters.

Thorough coverage of the bins or storage areas is essential for optimal results. For surface treatments, apply 1 ml (1/30 fl oz) of METHOGRAIN® IGR 300 per 1,000 square feet; or for space spray, apply 3 ml (1/10 fl oz) per 10,000 cubic feet in sufficient diluent to provide adequate coverage. Do not flood top-dress area.

**DIRECTIONS FOR FOGGING OR SPRAYING:** METHOGRAIN® IGR 300 may also be used as a fogging concentrate or surface spray for the treatment of insect pests that are affected by Insect Growth Regulators (almond moth, Indian meal moth, cigarette beetle, lesser grain borer, sawtooth grain beetle, merchant grain beetle, red flour beetle, confused flour beetle and other complete metamorphic insect pests that pupate): infesting warehouses, silos, storage bins, or other stored commodity areas.

**Application with Aerosol Generators:** Apply METHOGRAIN® IGR 300 as an ultra-low volume (ULV) mist or aerosol. Dilute with water or oil as required following the instructions of the spray equipment manufacturer. Apply METHOGRAIN® IGR 300 at the rate of 1 ml (1/30 fl oz) per 1,000 square feet of surface area or 3 ml (1/10 fl oz) per 10,000 cubic feet. Use appropriate spray equipment, such as mechanical break up cold aerosol generators or thermal foggers, to achieve uniform coverage.

Close room or warehouse and shut off all ventilating systems. Apply the product as a fine mist in the air above the trays, shelves, and in areas where dust may accumulate. Do not remain in treated areas and ventilate before re-entry. Leave the room closed for 30 minutes to allow spray mist to settle before re-entry. Repeat application as required to suppress pest populations.

**Application as an Aqueous Spray:** To prepare a diluted spray solution, fill the mixing container with ½ gallon water, add 1 ml (1/30 fl oz) of METHOGRAIN® IGR 300, mix, and complete filling with a total of 1 gallon of water. Apply at a rate of 1 gallon of diluted solution per 1,000 square feet of surface area with any low-pressure sprayer typically used for indoor applications. Treat all areas that may harbor insect pests. Agitate solution before each use. Repeat application as required to suppress pest populations.

## **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a cool, dry place.

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

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for ten seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for ten 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.

#### **WARRANTY AND CONDITIONS OF SALE**

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**METHOGRAIN® IGR 300**

Alternate Brand Name: BIOPREN Sciarid Fly Control

**SUBLABEL C**

[An Insect Growth Regulator]

[To prevent the emergence of adult sciarid flies in mushroom culture]

**Active Ingredient:**

(S)-Methoprene (CAS No. 65733-16-6)..... 33.6%

**Other Ingredients\*:** ..... 66.4%**TOTAL:** ..... 100.0%

\* This product contains petroleum distillates.

This product contains 2.5 lbs (S)-Methoprene active ingredient per gallon of product (300 grams/liter)

EPA Reg. No. 70062-9

EPA Est. No. 70062-HUN-1

Net Contents: 1 Liter (0.26 Gallons)

Date of Production / Batch Nr.:

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**FIRST AID**

<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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Have the product label or container with you when calling a poison control center or doctor or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday - Friday, 8 am to 12 pm Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)). For medical emergencies call your poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN:** Contains petroleum distillates – vomiting may cause aspiration pneumonia.

[See [front][side][back] of label for additional precautionary statements.]

[Manufactured][and][Registered] By:  
Babolna Bioenvironmental Centre Ltd Plc.  
H-1107. Budapest, Szállás. U. 6  
Hungary

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical resistant gloves, such as neoprene rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), barrier laminate, or viton ( $\geq 14$  mils).

Follow manufacturer's 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.

**Engineering Controls Statements:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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.

For any additional product information, please contact Apollo Solutions, LLC at 2101 Mystic Ridge Road, Knoxville, TN 37922, by phone, 847-340-9762.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

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.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination,

notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as neoprene rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), barrier laminate, or viton ( $\geq 14$  mils)
- Shoes plus socks

Do not apply this product through any type of irrigation system.

(S)-methoprene, the active ingredient in METHOGRAIN® IGR 300 insect growth regulator (IGR) is a chemical analog of a natural insect hormone. Unlike traditional pesticides, the presence of (S)-methoprene does not result in immediate insect kill; it interferes with the normal process of insect development. METHOGRAIN® IGR 300 will prevent the emergence of adult sciarid flies when incorporated into the mushroom growing medium. Pupae and adults present at the time of application will not be affected. If high adult populations are present initially, use of a conventional adulticide will ensure the best overall results. Use an appropriately labeled adulticide to knock down the adult infestation prior to the application of METHOGRAIN® IGR 300. After treatment with METHOGRAIN® IGR 300, larvae will continue to develop to the pupal stage where they will die.

**COMPATIBILITY ON MUSHROOMS:** In most cases, treatment with METHOGRAIN® IGR 300 has a beneficial effect on mushroom yield through control of damaging sciarid fly larvae. However, to determine if spotting or effect on yield may occur, the user should conduct test treatments on small plots using one of the methods listed below.

**METHOD, RATE, AND TIMING OF APPLICATION:** Incorporate METHOGRAIN® IGR 300 in the mushroom growing medium.

Follow either **METHOD A**, **METHOD B**, **METHOD C** or **METHOD D** application instructions below:

**A. INCORPORATE IN CASING AT TIME OF CASING**

Apply METHOGRAIN® IGR 300 at the rate of 5½ fluid ounces per 1,000 sq ft. Apply evenly. Mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after placement.

**B. INCORPORATE IN COMPOST AT TIME OF SPAWNING AND IN CASING AT TIME OF PLACEMENT OF CASING LAYER**

**In Compost:** Apply METHOGRAIN® IGR 300 at the rate of 5½ fl oz/1,000 sq ft in adequate water for even distribution. Spray or sprinkle on the surface of compost at the time of spawning and thoroughly incorporate using a spawning machine or other suitable mechanical means.

**In Casing:** Apply METHOGRAIN® IGR 300 at the rate of 2¼ fl oz/1,000 sq ft. Apply evenly. Mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after setting it in place.

#### **C. COMPOST SURFACE DRENCH BEFORE CASING AND IN CASING AT TIME OF PLACEMENT OF CASING LAYER**

For those variety of mushrooms that have a 16-day or longer spawn run, use a split application.

**First Application, on compost:** Apply METHOGRAIN® IGR 300 12-13 days after spawning. Drench METHOGRAIN® IGR 300 evenly on the surface at the rate of 2¾ fl oz/1,000 sq ft in adequate water for even distribution.

**Second Application, in casing:** Apply METHOGRAIN® IGR 300 at the rate of 2¾ fl oz/1,000 sq ft. Apply evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after setting it in place.

#### **D. INCORPORATE IN CASING AT TIME OF CASING FOLLOWED BY A SURFACE APPLICATION PRIOR TO FIRST BREAK OF MUSHROOMS**

**First Application, in casing:** Apply 5½ fl. oz. METHOGRAIN® IGR 300 per 1,000 sq ft in adequate water for even distribution and mechanically mix into the casing material prior to the casing operation.

**Second Application, on casing surface just prior to first break:** Apply 2¾ fl. oz. METHOGRAIN® IGR 300 per 1,000 square feet in adequate water for even distribution as a surface drench prior to first break of mushrooms.

#### **MIXING AND HANDLING INSTRUCTIONS:**

1. Add the measured amount of METHOGRAIN® IGR 300 to a spray tank partially filled with water, mix, and complete filling with specified quantity of water.
2. Use diluted spray solution within 72 hours of mixing. Agitate before each use.

### **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a cool, dry place.

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

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for ten seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for ten 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.

### **WARRANTY AND CONDITIONS OF SALE**

To the extent consistent with applicable law, seller makes no warranty concerning the use and handling of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

# METHOGRAIN® IGR 300

Alternate Brand Name: BIOPREN Midge Control

## SUBLABEL D

[An Insect Growth Regulator]

[To prevent the emergence of adult filter flies and non-biting midges in waste water treatment facilities]

### Active Ingredient:

(S)-Methoprene (CAS No. 65733-16-6)..... 33.6%

**Other Ingredients\*:** ..... 66.4%

**TOTAL:** ..... 100.0%

\* This product contains petroleum distillates.

This product contains 2.5 lbs (S)-Methoprene active ingredient per gallon of product (300 grams/liter)

EPA Reg. No. 70062-9

EPA Est. No. 70062-HUN-1

Net Contents: 1 Liter (0.26 Gallons)

Date of Production / Batch Nr.:

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

### FIRST AID

<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.</li> </ul>

Have the product label or container with you when calling a poison control center or doctor or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday - Friday, 8 am to 12 pm Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)). For medical emergencies call your poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN:** Contains petroleum distillates – vomiting may cause aspiration pneumonia.

[See [front][side][back] of label for additional precautionary statements.]

[Manufactured][and][Registered] By:  
Babolna Bioenvironmental Centre Ltd Plc.  
H-1107. Budapest, Szállás. U. 6  
Hungary

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARDS:** Do not contaminate water when disposing of rinsate or equipment washwaters.

**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical resistant gloves, such as neoprene rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), barrier laminate, or viton ( $\geq 14$  mils).

Follow manufacturer's 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.

**Engineering Controls Statements:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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.

**PRODUCT DESCRIPTION**

METHOGRAIN® IGR 300 controls fitter flies (*Psychoda* spp.), non-biting midges (*Chironomidae*), and other nuisance aquatic insect species infesting wastewater treatment facilities. METHOGRAIN® IGR 300 contains an insect growth regulator (IGR) that is effective on the developing stages of insect pests. METHOGRAIN® IGR 300 does not kill adults but affects the larval stages as they grow and develop. METHOGRAIN® IGR 300 stops the formation of pupae of insect pests, thereby controlling adult populations. Continued use of the product prevents these pests from rebounding into unmanageable infestations.

For any additional product information, please contact Apollo Solutions, LLC at 2101 Mystic Ridge Road, Knoxville, TN 37922, by phone, 847-340-9762.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.



**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to protect agricultural plants on farms, forests, nurseries, or greenhouses.

Do not remain in treated areas and ventilate before re-entry. Leave the room closed for 30 minutes to allow spray or fog mist to settle before re-entry into the area.

**MIXING AND HANDLING INSTRUCTIONS:** Partially fill spray container with water; then add the specified amount of METHOGRAIN® IGR 300, agitate, and complete filling with water. Agitate mildly during application. To agitate use recirculation pump, mixer, air pump, or other suitable equipment.

**USE APPLICATIONS:**

**Wastewater Treatment Facility Pests:** Use METHOGRAIN® IGR 300 in trickling filters, sludge drying beds, clarifiers, holding ponds, lagoons, influent structures, stagnant or standing water, or areas of wastewater treatment facilities where non-biting midges, filter flies, and other nuisance aquatic insect pests are a problem.

**What to Expect in Waste Water Treatment Facilities**

**Continuous Flow Sewage (wastewater):** In order to achieve effective results, apply METHOGRAIN® IGR 300 daily for 10 days. If applications are not made on a continuous basis, erratic results may occur. Following initial applications of METHOGRAIN® IGR 300, a gradual reduction in the number of adult pests will be seen over approximately a 1-week period. Reduction in adult populations will be noticeable within a 2-week period following continuous application. Due to varying weather or climate conditions or heavy infestations, a longer period may be necessary to achieve control. Since METHOGRAIN® IGR 300 prevents adult emergence, existing adults and pupae present at the time of initial application will not be affected.

If application of METHOGRAIN® IGR 300 is halted following population suppression, rebound of the population can be expected within 2 to 3 weeks after stopping application. For continuous suppression throughout the pest season, continue applications of METHOGRAIN® IGR 300.

**Sludge or Solid Waste Applications:** For solid waste applications, use 3 ounces per million gallons of sludge or solids. Apply dilution until the drying beds have been filled. Following filling of the drying beds, halt the application. Apply the dilution at the influent side as the sludge or solids enter the drying beds.

**METHODS OF APPLICATION:**

**Wastewater Treatment Facilities:** Dilute METHOGRAIN® IGR 300 with water prior to use. Apply METHOGRAIN® IGR 300 by using a metering pump, drip bucket, or other suitable equipment. Metering pumps are the most efficient and accurate method of application. The application method will influence appropriate product dilution. Prepare the desired volume of dilution to apply over a 6-8 hour period; or in cases of sludge beds, apply until the beds have been filled. When using delivery devices, calibrate the device to deliver the required amount of METHOGRAIN® IGR 300 over a 6-8 hour period.

**APPLICATION RATE:****Wastewater Treatment Pests:**

**Initial Application** – Apply 3 ounces of METHOGRAIN® IGR 300 per 1 million gallons of sewage (wastewater) in sufficient water to apply uniformly at the influent side.

**Application to Wastewater – Trickling Filter:** Apply 3 ounces of METHOGRAIN® IGR 300 per 1 million gallons of sewage [wastewater] in sufficient water to uniformly apply the material. Apply at times of low periods of flow

(typically evening through early morning hours) for 6-8 hours. Discontinue treatment during peak flow periods and repeat applications the following day during the low flow period. Continue this application method for 10 days or until suppression of pests is achieved. Once suppression is achieved, repeat the application every 15 days or as necessary to control pests.

**APPLICATION SITES:**

**Wastewater Treatment Facilities:** Apply METHOGRAIN® IGR 300 to sewage as it flows into trickling filters, sludge drying beds, clarifiers, holding ponds, lagoons, influent structures, stagnant or standing water, or other areas of wastewater facilities where pests are a problem.

Apply METHOGRAIN® IGR 300 as the sewage enters (influent areas) the targeted processing area. For best results, apply at the influent side.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a cool, dry place.

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

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for ten seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for ten seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for ten 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.

**WARRANTY AND CONDITIONS OF SALE**

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