

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington, DC 20460

EPA Reg. Number:

Date of Issuance:

85937-1

MAR 27 2012

Term of Issuance:

Unconditional

Name of Pesticide Product:

Bug Oil Ornamental

NOTICE OF PESTICIDE:

X Registration

Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Plant Impact plc

c/o

Exponent

1150 Connecticut Avenue NW

Suite 1100

Washington, DC 20036

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA. This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Revise the EPA Registration Number to read, "EPA Reg. No. 85937-1".
- 3. Submit within 1 year after the Date of Registration acceptable data packages for Guideline Studies: Storage Stability study (OPPTS GLN: 830.6317) and Corrosion Characteristics study (OPPTS GLN: 830.6320) for this product.
- 4. Submit two (2) copies of the final printed labeling before you release the product for shipment.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Date:

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W. Michael McDavit, Associate Director, Biopesticides and Pollution Prevention Division

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MAR 27 2012

EPA Form 8570-6

Bug Oil Ornamental [Master Label]

Bug Oil Ornamental Commercial [Sub-Label A]

For Indoor and Outdoor Use as an insecticide/acaricide for the control of mites, whiteflies, aphids, thrips, mealybugs, scales and psylla on all ornamental plants [grown in greenhouses [(glass/plastic)], shade houses, or in nurseries] [and turf].

ACTIVE INGREDIENTS:

Canola Oil	93.899%
Tagetes Oil	
Thyme Oil.	
Wintergreen Oil.	
OTHER INGREDIENTS:	4.9%
TOTAL	100.000%

EPA Reg. No. 85937 - R

EPA Est. No.:

KEEP OUT OF REACH OF CHILDREN

[Refer to [Back][Side][Other] panel or Precautionary and Statements]

Net Contents: X gallon(s) [X litre(s)]

Manufactured by:

Plant Impact 12 South Preston Office Village Cuerden Way Preston UK PR5 6BL Tel: + 44 (0) 1772 628328

[] Denotes optional language.

ACCEPTED

3-27-12

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. \$25.937-1

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Prolonged or frequently repeated skin contact with the concentrated product may cause allergic reactions in some individuals.

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 high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

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

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation

[Read [all other safety precautions and directions for use][entire label] prior to use.]

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

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

AGRICULTURAL USE REQUIREMENTS

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.

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), notification to workers, and restricted-entry interval. The requirements in this box 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.

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:

- · Long-sleeved shirt and long pants
- · Shoes plus socks
- · Waterproof gloves

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 produce agricultural plants on farms, forests, nurseries, and greenhouses.

· Keep children and pets off treated areas until dry.

Application Timing and Rates

For all ornamentals [including turf] and listed pests, apply Bug Oil at the rate of a 1% or 2% spray solution. For a 1% spray solution, mix 1.3 fluid ounces of Bug Oil per gallon of water. For a 2% solution, mix 2.6 fluid ounces of Bug Oil per gallon of water. See application instructions for more information. Apply as soon as pests appear in the plant. If required repeat applications every 5-7 days to ensure that each new generation that appears is treated. Apply spray solution to ensure thorough coverage of plants and pests.

Mixing

Shake the container of Bug Oil thoroughly before opening. Fill the spray tank with approximately half the required amount of water. Accurately measure the correct amount of Bug Oil and add this to the spray tank, agitating the mixture continuously. Add the remainder of the water to tank to make up to a 1% spray solution, 1.3 fluid ounces of Bug Oil per gallon of water (equivalent to no more than [7.7 fluid ounces of Bug Oil per 1000 square feet][2.6 gallons of Bug Oil per acre]) or a 2% spray solution, 2.6 fluid ounces of Bug Oil per gallon of water (equivalent to no more than [15.4 fluid ounces of Bug Oil per 1000 square feet][5.2 gallons of Bug Oil per acre]). Keep the solution agitated during spraying and use immediately. Avoid leaving spray liquid in the sprayer for long periods such as during meal times and overnight.

Spray Application

Choose a nozzle that produces a fine spray quality and apply the product to give thorough coverage of the plant foliage, ensuring both the upper and lower surfaces of the leaves are covered. [Apply to turf until it is visibly wet.] Do not spray more than required and ensure spray run-off is avoided. A minimum of 22 gallons of spray solution per acre should be applied.

[Cleaning Spray Equipment

Ensure all spray equipment is thoroughly cleaned after use. Use of water and detergent will be sufficient. Dispose of washings according to local regulations.]

[Crop Safety

Bug Oil has been tested on a range of ornamental plant species. However, before using Bug Oil on any new ornamental species or varieties, it is recommended that a small area is sprayed first to assess crop safety. Any mixtures with other products need to be tested prior to large scale use, to ensure physical compatibility and crop safety.

USE SITES

Bug Oil is used to control mites, whiteflies, aphids, thrips, mealybugs, scales and psylla on all ornamental plants [grown indoors or outdoors] [including turf] [and on turf].

Application Instructions

	Maximum Sing	le Application Rate	
	1% Spray Solution	2% Spray Solution	
Pest	fl. oz. Bug Oil / gallon of water	fl. oz. Bug Oil / gallon of water	Notes
Whiteflies Trialeurodes vaporariorum Bemisia tabaci Bemisia argentifolii	1.3	2.6	Apply 1 % spray solution at the onset of the pest entering the crop. Increase the rate to 2% spray solution under conditions of high pest pressure or in indoor crops when multiplication of the pest is rapid.
Mites Tetranychus spp. Panonychus spp.	1.3	N/A	
Aphids Aphis gossypii Myzus persicae Aphis spp.	1.3	2.6	Apply 1 % spray solution at the onset of the pest entering the crop. Increase the rate to 2% spray solution under conditions of high pest pressure or in indoor crops when multiplication of the pest is rapid.
Thrips Fraklinellia spp.	N/A	2.6	
Mealybugs	1.3	N/A	
Scales	1.3	N/A	
Psylla spp.	1.3	N/A	

Apply to ensure thorough coverage of plants and pests.

Resistance: The mode of action includes a physical element and resistance is less likely to arise with Bug Oil than with pesticides relying on chemical effects alone.

[COMPATIBILITY

Bug Oil may be tank-mixed with a variety of plant protection products and foliar nutrient sprays providing that the application timing is correct for both Bug Oil and the partner(s) in the mixture.

The products should be added separately to the bulk of water in the spray tank. Continuous agitation should be maintained and the product used immediately after mixing.

For further information on the approval status of mixture partners, consult Plant Impact.

If a tank-mix with another product is required, add the Bug Oil to the spray tank first and ensure that it is fully dispersed before adding subsequent products. PLEASE SEE THE MIXING SCHEDULE ABOVE.

Ensure that the label recommendations are followed for the partner product.]

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple 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 or 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.

[NOTICE TO BUYER]

[Note: Plant Impact warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Plant Impact makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Plant Impact's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Plant Impact shall have no liability for consequential damages.]

[Warranty and Disclaimer Statement]

[The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Plant Impact, and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Plant Impact warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Plant Impact, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, PLANT IMPACT DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, PLANT IMPACT, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF PLANT IMPACT IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF PLANT IMPACT, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT PLANT IMPACT'S ELECTION, THE REPLACEMENT OF THE PRODUCT.]

Manufactured by:

Plant Impact
12 South Preston Office Village
Cuerden Way
Preston
UK
PR5 6BL
Tel: + 44 (0) 1772 628328

[Batch code]

Bug Oil Ornamental Residential [Sub-Label B]

For Indoor and Outdoor Use as an insecticide/acaricide for the control of mites, whiteflies, aphids, thrips, mealybugs, scales and psylla on all ornamental plants [and turf].

ACTIVE INGREDIENTS:	
Canola Oil	93.899%
Tagetes Oil.,	0.6%
Thyme Oil.	0.6%
Thyme Oil. Wintergreen Oil.	0.001%
OTHER INGREDIENTS:	<u>4.9%</u>
TOTAL	100.000%

EPA Reg. No. 85937 - R

EPA Est. No.:

KEEP OUT OF REACH OF CHILDREN

[Refer to [Back][Side][Other] panel or Precautionary Statements]

Net Contents: X gallon(s) [X litre(s)]

Manufactured by:

Plant Impact 12 South Preston Office Village Cuerden Way Preston UK PR5 6BL Tel: + 44 (0) 1772 628328

[] Denotes optional language.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Prolonged or frequently repeated skin contact with the concentrated product may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

DIRECTIONS FOR USE

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

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation [Read [all other safety precautions and directions for use][entire label] prior to use.]

Keep children and pets off treated areas until dry.

Application Timing and Rates

For all ornamentals [including turf] and listed pests, apply Bug Oil at the rate of a 1% or 2% spray solution. For a 1% spray solution, mix 1.3 fluid ounces of Bug Oil per gallon of water. For a 2% solution, mix 2.6 fluid ounces of Bug Oil per gallon of water. See application instructions for more information. Apply as soon as pests appear in the plant. If required repeat applications every 5-7 days to ensure that each new generation that appears is treated. Apply spray solution to ensure thorough coverage of plants and pests.

Mixing

Shake the container of Bug Oil thoroughly before opening. Fill the spray tank with approximately half the required amount of water. Accurately measure the correct amount of Bug Oil and add this to the spray tank, agitating the mixture continuously. Add the remainder of the water to tank to make up to a 1% spray solution, 1.3 fluid ounces of Bug Oil per gallon water (equivalent to no more than [7.7 fluid ounces of Bug Oil per 1000 square feet][2.6 gallons of Bug Oil per acre]) or a 2% spray solution, 2.6 fluid ounces of Bug Oil per gallon water (equivalent to no more than [15.4 fluid ounces of Bug Oil per 1000 square feet][5.2 gallons of Bug Oil per acre]). Keep the solution agitated during spraying and use immediately. Avoid leaving spray liquid in the sprayer for long periods such as during meal times and overnight.

Spray Application

Choose a nozzle that produces a fine spray quality and apply the product to give thorough coverage of the plant foliage, ensuring both the upper and lower surfaces of the leaves are covered. [Apply to turf until it is visibly wet.] Do not spray more than required and ensure spray run-off is avoided.

[Cleaning Spray Equipment

Ensure all spray equipment is thoroughly cleaned after use. Use of water and detergent will be sufficient. Dispose of washings according to local regulations.]

[Crop Safety

Bug Oil has been tested on a range of ornamental plant species. However, before using Bug Oil on any new ornamental species or varieties, it is recommended that a small area is sprayed first to assess crop safety. Any mixtures of other products need to be tested prior to large scale use, to ensure physical compatibility and crop safety.]

Use Sites

Bug Oil is used to control mites, whiteflies, aphids, thrips, mealybugs, scales and psylla on all ornamental plants [grown indoors or outdoors] [including turf] [and on turf].

Application Instructions

	Maximum Sing	le Application Rate	
	1% Spray Solution	2% Spray Solution	
Pest	fl. oz. Bug Oil / gallon of water	fl. oz. Bug Oil / gallon of water	Notes
Whiteflies Trialeurodes vaporariorum Bemisia tabaci Bemisia argentifolii	1.3	2.6	Apply 1% spray solution at first sign of the pest or under low pest pressure. Apply 2% spray solution under conditions of high pest pressure or when a 1% spray solution is not giving adequate control.
Mites Tetranychus spp. Panonychus spp.	1.3	N/A	
Aphids Aphis gossypii Myzus persicae Aphis spp.	1.3	2.6	Apply 1% spray solution at first sign of the pest or under low pest pressure. Apply 2% spray solution under conditions of high pest pressure or when a 1% spray solution is not giving adequate control.
Thrips Fraklinellia spp.	N/A	2.6	
Mealybugs	1.3	N/A	
Scales	1.3	N/A	
Psylla spp.	1.3	N/A	

Apply to ensure thorough coverage of plants and pests.

Resistance: The mode of action includes a physical element and resistance is less likely to arise with Bug Oil than with pesticides relying on chemical effects alone.

[COMPATIBILITY

Bug Oil may be tank-mixed with a variety of plant protection products and foliar nutrient sprays providing that the application timing is correct for both Bug Oil and the partner(s) in the mixture.

The products should be added separately to the bulk of water in the spray tank. Continuous agitation should be maintained and the product used immediately after mixing.

For further information on the approval status of mixture partners, consult Plant Impact.

If a tank-mix with another product is required, add the Bug Oil to the spray tank first and ensure that it is fully dispersed before adding subsequent products. PLEASE SEE THE MIXING SCHEDULE ABOVE.

Ensure that the label recommendations are followed for the partner product.]

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

[NOTICE TO BUYER]

[Note: Plant Impact warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Plant Impact makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Plant Impacts liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Plant Impact shall have no liability for consequential damages.]

[Warranty and Disclaimer Statement]

[The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Plant Impact, and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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