

53883-112

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

9/30/2003

117



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

EPA Reg. Number:

53883-112

Date of Issuance:

9/30/03

Term of Issuance:

Unconditional

Name of Pesticide Product:

Methoprene 20% Concentrate

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

Notwithstanding to whom this registration is accepted in connection with this registration must be submitted to and accepted by the Administrator. The registrant shall be responsible for the accuracy of the information on 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/reregistered 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 registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

- 1. Make the following label change before you release the product for shipment:

Revise the EPA Registration No. from 53883-RRE to 53883-112

Signature of Approving Official:

*JSM*

(See second page for signature)

Date:

9/30/03

EPA Form 8570-6

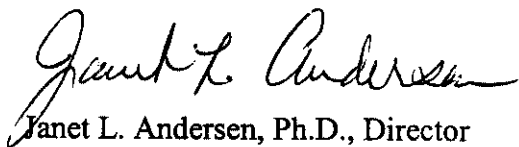
CONCURRENCES

SYMBOL	7511C	7511G					
SURNAME	Hudson	Holly	Ruell				
DATE	9-16-03	9-29-03	9/29/03				

2. Submit five (5) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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

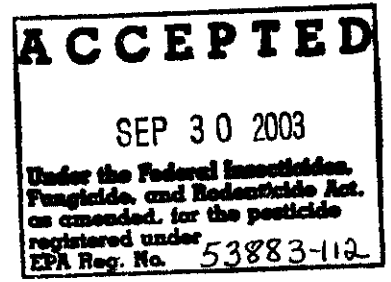
Sincerely,

A handwritten signature in cursive script that reads "Janet L. Andersen".

Janet L. Andersen, Ph.D., Director  
Biopesticides and Pollution Prevention  
Division (7511C)

Enclosures

3/7



[Indicates optional marketing text]

### Methoprene 20% Concentrate

- [Prevents Emergence of Adult Floodwater Mosquitoes]
- [Prevents the emergence of adult filter [moth] flies, and midges]
- [Keeps infestations under control]
- [Prevents emergence of adult fleas up to 8 weeks outdoors]
- [Controls pre-adult fleas (larvae) up to 8 weeks]
- [Biorational [approach to] flea control outdoors]
- [Microencapsulated Formula]
- [Prevents adult mosquito emergence (including those which may transmit West Nile Virus)]

**ACTIVE INGREDIENT:**

(S)- Methoprene [Isopropyl (2E, 4E, 7S)-  
 11-methoxy-3,7,11-trimethyl-2,4-  
 dodecadienoate] .....

20.0%

INERT INGREDIENTS: .....

80.0%

Total .....

100.0%

Contains 1.72 lb/ gal (205.2 g/l) active ingredient

## KEEP OUT OF REACH OF CHILDREN CAUTION

Net Contents \_\_\_\_\_

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

First Aid	
If in eyes	<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 eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<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>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center at 1-800-222-1222</p>	

[Note: First Aid Statement paragraph format may be used if space is limited.]

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of rinsate or equipment washwaters.

[INTRODUCTION]

Methoprene 20% Concentrate is a unique product that controls [mosquitoes][filter [moth] flies (*Psychoda* spp.)][midges (*Chironomidae*)] and other nuisance aquatic insect species [infesting waste water treatment facilities]. Methoprene 20% Concentrate contains an insect growth regulator (IGR) that is effective on the developing [immature] stages of insect pests. Methoprene 20% Concentrate does not kill adults but affects the larval stages as they grow and develop. Methoprene 20% Concentrate stops the formation of pupa of insect pests, thereby eliminating adult populations. Methoprene 20% Concentrate stops the cycle of reproduction, keeping pest infestations under control. Continued use of the product prevents these pests from rebounding into unmanageable infestations.]

**DIRECTIONS FOR USE**

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

Because of the unique mode of action of Methoprene 20% Concentrate, successful use requires familiarity with special techniques for application timing and treatment evaluation. Consult local Mosquito Abatement Agency.

**MIXING AND AHNDLING INSTRUCTIONS:**

- (1) **SHAKE WELL BEFORE USING.** Methoprene 20% Concentrate may separate on standing and must be thoroughly agitated prior to dilution.
- (2) Do not mix with oil; use clean equipment.
- (3) Partially fill spray tank [container] with water, then add the labeled amount of Methoprene 20% Concentrate, agitate and complete filling. Mild agitation during application is desirable. [Accomplish agitation by use of recirculation pump, mixer, air pump, or other suitable equipment.
- (4) Use spray solution within 48 hours; always agitate before spraying.

**APPLICATIONS**

**Mosquito Control:** Methoprene 20% Concentrate must be applied to 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> larval instars of floodwater mosquitoes to prevent adult emergence. Treated larvae continue normal development to the pupal stage where they die. **This insect growth regulator has no effect when applied to pupae or adult mosquitoes.** Methoprene 20% Concentrate has sufficient field life to be effective at label rates when applied to larval stages under varying field conditions.

**[Waste Water Treatment Facility Pests:** Use Methoprene 20% Concentrate in trickling filters, sludge drying beds, clarifiers, holding ponds, lagoons, influent structures, stagnant or standing water, or other areas of waste water treatment facilities where midges, filter [moth] flies, and other nuisance aquatic insect pests are a problem.]

**[What To Expect In Waste Water Treatment Facilities]  
[Continuous Flow Sewage {Waste Water}]**

In order to achieve effective results, Methoprene 20% Concentrate must be applied on a daily basis for at least 2 weeks. Failure to apply the material on a daily basis during the treatment phase may result in erratic results. Following initial applications of Methoprene 20% Concentrate, a gradual reduction in the number of adult pests will be seen over approximately a 1-week period. Reduction in adult populations will be very noticeable within a two-week period following continuous application. Due to varying conditions or heavy infestations, the period to expect control may be longer. Since the mode of action of Methoprene 20% Concentrate is to prevent adult emergence, existing adults and pupa present at the time of initial application will complete there life cycle.

As adult suppression peaks, use a maintenance rate of Methoprene 20% Concentrate for continuous protection from a population rebound. However, if application of Methoprene 20% Concentrate 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 application of Methoprene 20% Concentrate.

**Sludge Or Solid Waste Applications**

For solid waste applications, use 5 ounces per million gallons of sludge or solids. Apply the dilution until drying beds have been filled. Following the filling of drying beds, the application of the dilution may be halted. Make applications of the dilution at the influent side as the sludge or solids enter into the drying beds. Applications of Methoprene 20% Concentrate to solids will prevent the emergence of adult insect pests thereby keeping the infestations under control.]

**Methods of Application**

**Aerial:** Use the amount of Methoprene 20% Concentrate listed below in sufficient water to give complete coverage. One-half to 5 gallons of spray solution per acre is usually satisfactory. Do not apply when weather conditions favor drift from areas treated.

**Ground:** Determine the average spray volume use per acre by individual operators and/or specific equipment. Mix Methoprene 20% Concentrate in the appropriate volume of water to give the rate per acre shown below.

**[Waste Water Treatment Facilities:]** [Dilute Methoprene 20% Concentrate with water prior to use. Make application of Methoprene 20% Concentrate by use of a metering pump, drip bucket or other suitable equipment. Metering pumps are the most efficient method of application. Appropriate dilution of product will be influenced by the method of application. Depending on the dosage rate, prepare the desired volume of dilution to apply over a {6-8 hour period} {24 hour period (day tank)}, or in cases of sludge beds, applied until the beds have been filled. When using delivery devices, it is important to calibrate the device to deliver the required amount of Methoprene 20% Concentrate over a {6-8 hour period} {24 hour period}. {Sufficient material may be mixed in advance to provide for applications longer than 24 hours.}] [For best results, use metering pumps that are capable of delivering material for greater than 24 hours.]

**Application Rate**

**Mosquitoes:** Apply ¾ to 1 fl. oz. of Methoprene 20% Concentrate per acre (55 to 73 ml/ hectare) is water as directed.

**[Waste Water Treatment Pests:]**

**[Initial application:** 4 – 5 ounces Methoprene 20% Concentrate per 1 million gallons of sewage [waste water] in sufficient water to uniformly apply at the influent side over a 24 hour period.]

**[Maintenance rate:** 2.5 – 3.0 ounces Methoprene 20% Concentrate per 1 million gallons of sewage [waste water] in sufficient water to uniformly apply at the influent side over a 24 hour period.]

[To achieve effective results, make initial application rates on a daily basis for 2 weeks without interruption. Use sufficient water/ Methoprene 20% Concentrate to achieve uniform application to sewage [waste water] over a 24-hour period. Make application of the dilution at the influent side of the particular area to be treated.]

[Maintain initial rate of application for two weeks and then follow the directions for the maintenance rate for continued effectiveness.]

**[Application To Waste Water – Trickling Filter:**

Apply 5 ounces Methoprene 20% Concentrate per 1 million gallons of sewage [waste water] in sufficient water to uniformly apply the material. Make applications 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 7 to 10 days or until suppression of pests is achieved. Repeat applications every 15 days or as necessary to control pests.]

**Fleas:** Apply 1 ounce of Methoprene 20% Concentrate per 1000 square feet in water as directed.

**Application Sites**

**Pastures:** Methoprene 20% Concentrate may be applied after each flooding without removal of grazing livestock.

**Rice:** Methoprene 20% Concentrate must be applied to 2<sup>nd</sup>, 3<sup>rd</sup>, and/or 4<sup>th</sup> instar larvae of mosquitoes found in rice, usually within 4 days after flooding. Methoprene 20% Concentrate treatment may be repeated with each flooding.

**Intermittently Flooded Noncrop Areas:** Methoprene 20% Concentrate may be applied as directed above when flooding may result in floodwater mosquito hatch. Typical sites include freshwater swamps and marshes, woodland pools and meadows, dredging spoil sites, drainage areas, waste treatment and settling ponds, ditches and other natural and man-made depressions.

**Crop Areas:** Apply Methoprene 20% Concentrate to irrigated croplands after flooding to control mosquito emergence. Examples of such sites are vineyards, rice fields (including wild rice), date palm orchards, fruit and nut orchards and berry fields and bogs. Irrigated pastures may be treated after each flooding without removal of livestock.

**Dense vegetation or canopy areas:** Apply a Methoprene 20% Concentrate sand mixture using standard granular dispersal equipment.

**For Fleas Outdoors:** (1) When using a hose-end sprayer, place 0.75 ounces of Methoprene 20% Concentrate in bottle, add 6 ounces of water and apply at low pressure. (2) Make sure to apply at 0.75 ounces of Methoprene 20% Concentrate per 15 gallons of water. (3) Apply 0.75 ounces of Methoprene 20% Concentrate in 15 gallons of water to every 750 square feet of residential turf. (4) Pay particular attention to areas where pets frequent, such as, in and around dog houses and runs, and around shrubs, outside decks, and porches. (5) If a large population of fleas is present, use an outdoor flea control product for initial kill of adult fleas.

**[Waste Water Treatment Facilities:** Make applications of Methoprene 20% Concentrate 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 waste water facilities where pests are a problem.

Make applications of Methoprene 20% Concentrate as the sewage enters {Influent areas} the targeted processing area. Failure to add the material at the influent side may result in erratic results.]

**Tank Mixing Instructions:** Methoprene 20% Concentrate may be tank mixed with liquid *Bacillus thuringiensis* variety *israeliensis* (*B.t.i.*) formulations. The ratio of *B.t.i.* to Methoprene 20% Concentrate is to range from 24:1 to 50:1 (volume/volume). For example, to prepare a 50:1 tank mix, add 1 gallon of Methoprene 20% Concentrate to 50 gallons of *B.t.i.* Apply thi stank mix to sites listed above at rates 2 to 16 fluid ounces /acre (0.15 – 1.2 liters/hectare).

The user, at his discretion can [tank] mix Methoprene 20% Concentrate with an adulticide currently registered for use unless the product label prohibits such mixing. Use of the resulting tank mix must be used in accordance with the more restrictive label limitations and precautions.

**STORAGE & DISPOSAL**

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

**Storage:** Store in cool place, away from other pesticides, food and feed. In case of leakage or spill, soak up with sand or another absorbent material.

**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:** Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Warranty Statement**

[NOTE: CONTROL SOLUTIONS, INC. WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH THE DIRECTIONS FOR USE. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF CONTROL SOLUTIONS, INC. IN NO CASE SHALL CONTROL SOLUTIONS, INC. BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER. EXCEPT AS EXPRESSLY PROVIDED HEREIN, CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND CONTROL SOLUTIONS, INC. TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.]

[Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.]

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041  
EPA Reg. No. 53883 - RRE  
EPA Est. No.