



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Amy Plato Roberts
Regulatory Consultant for
Becker Microbial Products, Inc
Technology Sciences Group Inc.
712 Fifth Street, Suite A
Davis, CA 95619

RE: Product Name: BMP 144DF 3000
EPA Reg. No: 62637-14
Application for Notification dated November 3, 2011 to update Container
Disposal as per PR Notices 2007-4.

Dear Ms. Roberts:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticides Registration Notice (PRN) 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the letter submitted with this application has been stamped "**Notification Accepted**" and will be placed accordingly in our records.

Questions concerning this action should be directed to Mary Paden at (703) 308-0411 or email at paden.mary@epa.gov.

Sincerely,

Sheryl K. Reilly

Sheryl K. Reilly, Ph.D., Chief
Microbial Pesticides Branch
Biopesticides and Pollution Prevention
Division (7511P)

CONCURRENCES

SYMBOL			NOV 29 2011				
SURNAME							
DATE							

BMP 144 DF 3000

(Alternate Brand Name: AQUABAC® DF 3000)

Biolarvicide • Water Dispersible Granule

A microbial insecticide effective against mosquitoes, blackflies, nuisance flies (*Psychoda* spp. and *Chironomus* spp.) and nuisance aquatic midges (*Chironominae*) in a variety of habitats.

Notification Accepted

Date: NOV 29, 2011
Signature: M. J. Taden

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids and insecticidal toxins* 43.0%

OTHER INGREDIENTS: 57.0%

TOTAL: 100.0%

* Equivalent to 7,000 International Toxic Units (ITU)/mg (1.36 Billion ITU/lb or 3.0 Billion ITU/kg). Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • 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 further treatment advice.
If in eyes	<ul style="list-style-type: none"> • 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 on skin or clothing	<ul style="list-style-type: none"> • 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
See back panel for additional precautionary statements.	

EPA Reg. No.: 62637-14

EPA Establishment No.: XXXXX-XX-XX

Manufactured for: BECKER MICROBIAL PRODUCTS, INC.
11146 N.W. 69th Place
Parkland, FL 33076

Net Contents: XX

Batch Code: XX

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if inhaled or absorbed through the skin. Avoid breathing dust. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Mixers / loaders and applicators not in enclosed cabs or aircraft must wear a dust / mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

USER SAFETY RECOMMENDATIONS: Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing of equipment washwaters. Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

DIRECTIONS FOR USE

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

BMP 144 DF 3000 may be applied to any water sites except treated, finished drinking water reservoirs or drinking water receptacles.

MOSQUITOES:

Habitat	Rate Required for Control (Ounces per acre)
Flood water, roadside ditches, irrigation ditches, floodwater, rice fields, pastures, woodland pools, snowmelt pools, standing pools, tidal water, salt marshes, catch basins, and storm water retention areas	13/4 – 7.0 (50 - 200 g/acre) (125 – 500 g/ha)
Standing water in fields growing crops such as: alfalfa, almonds, asparagus, corn, cotton, dates, grapes, peaches, and walnuts may be treated to control mosquito larvae at the recommended rates. When applying BMP 144 DF 3000 to these fields, do not apply this product in a way that will contact workers or persons either directly or through drift. Only protected handlers may be in the area during application.	
Polluted water (sewage lagoons, etc.) water with moderate organic matter, and water with a high concentration of suspended solids	7.0 – 14.0 (200 – 400 g/acre)

(0.5 – 1.0 kg/ha)

Use the higher rate range when larvae are in the third or early fourth instar, mosquito populations are high, water is heavily polluted, and/or algae are abundant.

DILUTION RATES FOR SMALL QUANTITIES OF SPRAY:

Gallons of Spray Mixture per Acre
(Ounces / grams needed per gallon of spray)

Rates in		Final concentration, ounces/gallon of spray		
Ounces/Acre	Grams/Acre	10 Gal/Acre	25 Gal/Acre	50 Gal/Acre
1.75	50	0.175	0.07	0.04
3.50	100	0.35	0.14	0.07
7.00	200	0.70	0.28	0.14
14.00	400	1.40	0.565	0.28

SPECIFIC APPLICATION INSTRUCTIONS:

General: BMP 144 DF 3000 may be applied in conventional aerial and ground application equipment with sufficient water to provide thorough coverage of the target area. The amount of water needed will be dependent on weather, type of spray equipment and mosquito habitat.

Ground applications should be made in 5-100 gallons per acre in conventional equipment. As low as one gallon per acre surface area can be used when the target area is open with light vegetative cover.

Aerial application, fill the mix tank or aircraft hopper with the appropriate volume of water and agitate before adding BMP 144 DF 3000. Maintain agitation during loading and spraying. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all of these factors when making decisions.

Mixing Instructions: Fill tank with the required amount of water. Initiate moderate agitation and continue throughout mixing. Slowly pour BMP 144 DF 3000 into the water where turbulence is the greatest. After the BMP 144 DF 3000 is dispersed, the product will remain suspended for normal application periods. Additional agitation may be required if product sets for an extended period.

NUISANCE FLIES:

For control of the Nuisance Flies *Psychoda* spp. and *Chironomus* spp. in sewage treatment facilities utilizing trickling filter systems.

APPLICATION DIRECTIONS

Nuisance Fly Habitat

Suggested Use Rates ⁽¹⁾

Trickling filter system
of wastewater treatment plants

4 – 20 mg per liter of wastewater
feed to the system per 30 minutes.

1. Use higher rates for control of *Chironomus* spp. Apply undiluted with a pre-calibrated pump or other device into the wastewater feeding into the filters for a minimum period of 30 minutes. Repeat applications as needed. Control of *Chironomus* spp. may take two weeks.

NUISANCE AQUATIC MIDGES:

For control of *Chironomine* midges (*Chironominae: Chironomini*) inhabiting shallow, man-made and natural lakes and ponds.

APPLICATION DIRECTIONS

Nuisance Midge Habitat	Suggested Rate Range ⁽¹⁾
-------------------------------	--

Shallow lakes and ponds	3.5 pounds / acre
Per sewage oxidation ponds (less than an acre 6 feet deep)	(1.6 kg / acre)

1. Apply diluted with water in a total volume of 5 gallons / acre by pouring or spraying over the surface to be treated with a pre-calibrated device. Repeat applications as necessary. Control of *Chironomini* midges may take up to two weeks.

STORAGE AND DISPOSAL

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

Storage: Store in a cool (59 – 86° F; 15 – 30° C), dry place.

Pesticide Disposal: Wastes resulting from 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. Completely empty bag 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.**

NOTICE TO USER

Seller makes no warranty express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with label instructions.

In case of emergency endangering life and property involving this product, call collect, day or night, (800) 759-1602.

