MEMORANDUM

TO: Agricultural Extension Agents and Interested Parties

FROM: Dennis Howard, Chief, Pesticide Regulation Section

SUBJECT: Section 18 Approval for the use of Bifenthrin (Bifenture EC, Bifenture 10DF and Brigade WSB), to control Brown marmorated stink bugs on apples, peaches and nectarines.

The U.S. Environmental Protection Agency has recently approved the Maryland Department of Agriculture’s request for a specific exemption under Section 18 of FIFRA. This exemption allows the use of 3 products (Bifenture EC, Bifenture 10DF and Brigade WSB) to control Brown marmorated stink bugs on apples, peaches and nectarines. This specific exemption expires October 15, 2015.

Under this specific exemption, Brigade WSB (10% bifenthrin), EPA Registration No. 279-3108, manufactured by FMC Corporation; Bifenture EC (25% bifenthrin), EPA Registration No. 70506-277; and Bifenture 10 DF (10% bifenthrin), EPA Registration No. 70506-57, both manufactured by United Phosphorus, Inc., may be applied to apples, peaches and nectarines.

Applications must be made post-bloom, by ground only, at a rate of 0.08 to 0.2 lb. active ingredient bifenthrin (a.i.) per acre; no more than 0.5 lb a.i. per acre may be applied per year; multiple applications may be made at a minimum of 30 day intervals; a restricted entry interval (REI) of 12 hours and pre-harvest interval (PH) of 14 days must be observed.

All applicable direction, restrictions, and precautions on the EPA - registered product labels, as well as those outlined on the section 18 use directions must be followed. To help minimize exposure to pollinators, the following statement on the application time must be observed: “Do not apply this product until after petal fall.”

To mitigate risks of aquatic organisms, Section 3 product label requirements must be strictly followed. For ground applications (the only method allowed under this exemption) a 10 ft vegetative buffer strip, or a 25 ft buffer zone is required between the site of application and adjacent bodies of water. Recommendation on the section 3 product labels regarding droplet size, wind direction and speed, temperature inversions, and other factors affecting off-site drift or runoff of bifenthrin must also be carefully followed.
Please Note: This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment was waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

The Use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service or Department of Natural Resources for procedures to protect endangered species.

The Maryland Department of Agriculture’s Pesticide Regulation Section shall be immediately informed of any adverse effects resulting from the use of this pesticide in connection with this exemption.

Your help in dissemination this information is greatly appreciated.

DWH:dh
cc: Bifenthrin Section 18 File
For distribution and use only in Maryland under an emergency exemption authorized under Section 18 of FIFRA

All applicable directions, restrictions, and precautions on the EPA registered product labels as well as those on these directions for use must be followed. These directions for use must be in the possession of the user at the time of pesticide application.

**Products:**
- Bifenture® EC Agricultural Insecticide (EPA Reg. No. 70506-57)
- Bifenture® 10DF Insecticide/Miticide (EPA Reg. No. 70506-227)

**Firm Name:** United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

**Crop/Site/Commodity:** Apples, Peaches, Nectarines

**File Symbol:** 15-MD-02, 15-MD-03, 15-MD-04

**Target Pest/Problem:** Brown Marmorated Stink Bug (Halyomorpha halys)

**Dosage:**
- Apply 5.12 – 12.8 fl ozs (0.08-0.20 lbs ai) per acre of **Bifenture EC Agricultural Insecticide** (EPA Reg. No. 70506-57), OR
- Apply 12.8 – 32.0 ozs (0.08-0.20 lbs ai) per acre of **Bifenture 10DF Insecticide/Miticide** (EPA Reg. No. 70506-227)

Use higher rates under heavy insect pressure.

**Dilution Rate:**

**By Ground:** Apply as a dilute spray (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre).

For best control, thorough coverage is necessary.

**Frequency/Timing of Applications:**

Applications should be applied when populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Do not apply more than 32 fl ozs (0.50 lbs ai) of **Bifenture EC Agricultural Insecticide** or 80 ozs (0.50 lbs ai) of **Bifenture 10DF Insecticide/Miticide** per acre per season.

Apply as necessary to maintain control using a minimum of 30-day spray intervals.

Do not apply this product until after petal fall.

Do not graze livestock in treated orchards or cut treated cover crops for feed.

**Restricted Entry Interval (REI):** 12 hours

**Pre-Harvest Interval (PHI):** 14 days

**Restricted Use Pesticide:** When used in Maryland, applications can only be made by certified applicators or by persons under their direct supervision and only for those uses covered by the certified applicators certification.

This exemption is effective April 6, 2015 through October 15, 2015.
RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms.
For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certificate

Brigade WSB
Insecticide/Miticide

Section 18 EXEMPTION
FOR DISTRIBUTION AND USE ONLY IN MARYLAND

EPA File Symbols:
15-MD-___
15-MD-___
15-MD-___

EMERGENCY CALLS: 800-331-3148

ALL APPLICABLE DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS ON THE REGISTERED PRODUCT LABEL FOR BRIGADE WSB (EPA REG. NO. 279-3108) ARE TO BE FOLLOWED

THESE DIRECTIONS FOR USE MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

This exemption is effective from 2015 through 2015

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest Controlled</th>
<th>Rate of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples, Peaches, Nectarines</td>
<td>Brown Marmorated Stinkbug</td>
<td>12.8 - 32 oz/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.08 - 0.2 lb ai/acre)</td>
</tr>
</tbody>
</table>

Directions for Use: Application must be made post-bloom, by ground only as a dilute (minimum 200 gallons of finished spray per acre) or concentrate (minimum 50 gallons of finished spray per acre) in sufficient water to provide thorough coverage. Do not apply this product until after petal fall.

Restrictions: Do not apply more than 32 oz/acre (0.2 lb ai/acre) per application. Do not apply more than 72 oz/A (0.5 lb ai/acre) per year. Do not make applications less than 30 days apart. Do not graze livestock in treated areas. Do not apply within 14 days of harvest. Do not allow entry into treated areas for 12 hours following application.

Any adverse effects resulting from the use of Brigade WSB under this emergency exemption must be immediately reported to the Maryland Department of Agriculture.

FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103

Brigade is a FMC Trademark
©2015 FMC Corporation