

73049-482

10/29/2012

1/8



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OCT 29 2012

Mr. Nasser Assaf, Ph.D.  
Valent BioSciences  
870 Technology Way, Suite 100  
Libertyville, IL 60048

Subject: Label Notification(s) for Pesticide Registration Notice 98-10

Dear Dr. Assaf:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated October 2, 2012 for the following product(s):

**Crossfire®**

**Alternate Brand Name**

The Registration Division (RD) has conducted a review of this request for applicability under PR Notice 98-10 and finds that the label change(s) requested falls within the scope of PRN 98-10. The label has been date-stamped "Notification" and will be placed in our records.

**VBC3**

**EPA Reg. No. 73049-482**

If you have any questions, please contact Linda A. DeLuise at 703-305-5428.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Gebken".

Richard J. Gebken  
Product Manager  
Insecticide Branch  
Registration Division (7504P)

2/8



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 73049-482	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) VBC3	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Valent BioSciences Corporation 870 Technology Way Libertyville, IL 60048 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: <b>NOTIFICATION</b> EPA Reg. No. _____ <b>OCT 29 2012</b> Product Name _____	

**Section - II**

Amendment - Explain below.  Final printed labels in response to Agency letter dated \_\_\_\_\_

Resubmission in response to Agency letter dated \_\_\_\_\_  "Me Too" Application.

Notification - Explain below.  Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.) This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

NOTIFICATION of Addition of Alternate Brand Name per PR Notice 98-10 II A: Crossfire(R)

**Section - III**

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container

5. Location of Label Directions  
 on label

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper glued Stenciled  Other \_\_\_\_\_

**Section - IV**

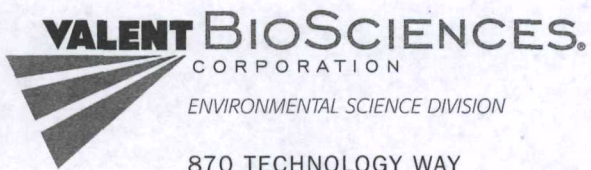
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Nasser Assaf, Ph.D.	Title Manager, Product Safety and Regulatory Affairs	Telephone No. (Include Area Code) (847) 968-4844
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**Certification**  
 I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received  
**(Stamped)**

2. Signature <i>NAASSAF</i>	3. Title Manager, Product Safety and Regulatory Affairs
4. Typed Name Nasser Assaf, Ph.D.	5. Date October 2, 2012



870 TECHNOLOGY WAY  
LIBERTYVILLE, IL 60048 - 800-323-9597

October 2, 2012

Document Processing Desk (NOTIF)  
Insecticide Branch  
Registration Division (7504P)  
Office of Pesticide Programs  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202-4501

ATTN: Richard Gebken  
Product Manager 10  
Insecticide Branch

SUBJECT: APPLICATION FOR PESTICIDE – NOTIFICATION OF LABELING  
Addition of Alternate Name: Crossfire ®

Dear Mr. Gebken:

Valent BioSciences Corporation is submitting a Label Notification to add an alternate brand name to EPA Reg. No. 73049-482, VBC3,

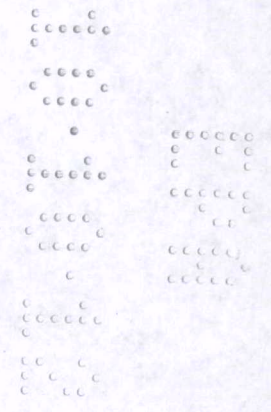
*one* (1) copies of revised Master labeling enclosed.

Please contact me at (847) 968-4844 or e-mail to: [Nasser.Assaf@valent.com](mailto:Nasser.Assaf@valent.com) if you have any questions or if additional information required.

Sincerely,

Nasser Assaf, Ph.D.  
Regulatory Manager, ESD

Enclosures  
cc: VBC regulatory file



4/8

# VBC<sub>3</sub> Insecticide

**Alternate Name: Crossfire®**

- [Kills Bed Bugs and Bed Bug Eggs
- Scientifically formulated to kill Pyrethroid-resistant and or Field and or Wild Bed Bug Strains
- Kills all bed bug life stages or entire bed bug lifecycle by Contact
- Kills and or Controls and or Targets Adult and Nymphs Bed Bug Life Stages
- Kills and or Targets all Bed Bug Life Stages: Adults, Nymphs and Eggs
- Kills Bed Bugs on surfaces for up to 4 weeks
- Reduces and or Prevents pyrethroid-resistant and susceptible Bed Bug egg hatch
- Residual Control and or Kill for up to 4 weeks or 30 days or 1 month begins working within minutes of exposure or application
- Effective for up to 30 days Post or After Application
- Direct contact provides control in only 5 minutes as shown in or by independent testing
- Fast or Quick Knockdown and Kill
- Patent Pending Technology
- Recommended for use by Pest Control Operators or Pest Management Professionals or Commercial Applicators
- For use in Residential, Institutional and Commercial Facilities
- Approved for direct application on or onto to mattresses
- Use as part of your existing bed bug control program
- Non-staining
- No visible residue
- Low odor
- Non-Repellent
- Easy to measure and mix
- Unique water-based formula
- Unique blend of active ingredients to control and or kill resistant bed bugs]

**NOTIFICATION**

**OCT 29 2012**

EPA Reg. No. 73049-482

EPA Est. No. xx-x

**ACTIVE INGREDIENTS:**

Clothianidin.....	4.00%
Metofluthrin.....	0.10%
Piperonyl Butoxide*.....	10.00%
<b>OTHER INGREDIENTS:</b> .....	<u>85.90%</u>
	100.00%

\*(butylcarbityl) (6-propylpiperonyl) ether and related compounds

Contains 0.3409 lb. of Clothianidin, 0.0085 lb of metofluthrin and 0.8523 lbs of piperonyl butoxide per gallon of concentrate.

### KEEP OUT OF REACH OF CHILDREN

See attached booklet [inside label][back panel] for additional precautionary statements [and directions for use].

**PRECAUCION AL CONSUMIDOR:** Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

**(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

**Net Contents: 13 fl. Ounces**

<b>FIRST AID</b>	
<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 for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</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>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product (including health concerns, medical emergencies or pesticide incidents), you may call 1-877-315-9819 or outside the US call 1-651-632-6184.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeve shirt
- Long pants, and
- Shoes and socks

#### User Safety Requirements

- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Don't reuse them.

### PHYSICAL AND CHEMICAL HAZARDS

Do not apply this product in, on or around electrical equipment due to the possibility of shock hazard.

### DIRECTIONS FOR USE

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**SHAKE WELL BEFORE EACH USE**

#### FOR INDOOR USE ONLY

**VBC<sub>3</sub>** is the next generation insecticide which effectively kills Bed Bugs in both residential and commercial buildings and structures. **VBC<sub>3</sub>**'s patent pending technology provides residual control for up to four weeks after application and is scientifically formulated to target [pyrethroid, wild and or field] **resistant** as well as susceptible **Bed Bug strains**. **VBC<sub>3</sub>** also kills **Bed Bug Nymphs and Eggs** by contact. This product must be diluted with water and applied according to the mixing instructions [directions] below. Apply **VBC<sub>3</sub>** as an indoor crack and crevice, or direct spray application [according to

application instructions] in non-food areas including but not limited to: hotels, shelters, modes of transportation, restaurants, schools, nursing homes, warehouses, offices, apartments, motels, kennels, and hospitals. **VBC<sub>3</sub>** is an easy to use water-dilutable concentrate for application with hand-held, backpack or with a paintbrush. This product will not stain water-safe fabrics or surfaces, however care should be taken to test an inconspicuous area for staining prior to use.

**TO KILL BED BUGS (Adults, Nymphs and Eggs):** For best results, vacuuming surfaces is recommended prior to treatment. Spray bed bugs and eggs directly wherever possible. Apply as a pinstream, coarse spray or low pressure spray for crack and crevice, carpet perimeter, and direct spray applications in and around non-food areas where bed bugs and their eggs may hide or harbor. For example, on and around baseboards, floorboards, millwork, bed frames, headboards, wall hangings, furniture, door and window frames, walls, closets, window treatments, beneath floor coverings, as well as other non-washable items that may come in contact with bed bugs such as luggage, shoes and backpacks. If treating a pet's living environment, spray on and around pet beds, bedding, floors, sleeping areas and furnishings. This product can also be applied with a paintbrush to walls, baseboards, floorboards, behind wall hangings and other similar areas.

**MATTRESS-APPLICATION:** **VBC<sub>3</sub>** can be directly applied to mattress and box springs surfaces. For porous surfaces such as mattresses and carpet perimeter areas, apply until thoroughly damp but not wet. Infested bed linens should not be treated. These should be removed, tightly sealed in a plastic bag, laundered and dried at high temperatures prior to re-use. Vacuuming surfaces prior to treatment is highly recommended. Using pinstream, coarse or low pressure equipment, spray directly to mattress surface paying special attention to seams, folds, tufts and edges as well as bed frames and box springs where bed bugs harbor. Re-make bed with clean linens prior to reuse.

#### USE RESTRICTIONS

- THIS PRODUCT IS NOT FOR USE ON HUMANS OR ANIMALS
- Do not spray product directly on pets.
- Not for broadcast use.
- Do not use in commercial food/feed processing, preparation, food/feed storage or serving areas.
- In the home, all food/feed processing surfaces and utensils should be covered during treatment, or thoroughly washed before use. Cover or remove exposed food/feed.
- Remove pets, birds and cover fish aquariums before spraying.
- This product will not stain water-safe fabrics and surfaces, however care should be taken to test an inconspicuous area for staining prior to use.
- DO NOT allow adults, children or pets to enter treated area until sprays are dry
- DO NOT apply to plants or crops
- DO NOT treat areas when occupants are present
- DO NOT apply as a space spray
- DO NOT wet articles to the point of runoff or drip
- DO NOT use treated articles until spray has dried

#### MIXING INSTRUCTIONS

**VBC<sub>3</sub>** is conveniently packaged in a single unit dose so there is no measuring required. Mix entire contents [13 fl. ounces] in 1 gallon of water to treat 1000 square feet.

To prepare the diluted spray, fill the sprayer tank with half the total water to be used, add the **VBC<sub>3</sub>** then add the remaining water to the spray tank to achieve the final application volume. Close the spray tank and shake thoroughly to insure proper suspension. For optimal results, solution should be used within 24 hours of being prepared. Spray tank solution should be shaken prior to each use or if application is interrupted. Diluted mixture may be stored overnight.

NOTICE: This product may be tank-mixed with other insecticides. Application must conform to the use directions and precautions of both products. Prior to tank mixing, a small jar compatibility test should be conducted using the proper proportions of each product and water to ensure the physical compatibility of the mixture. Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in its original container. Store in a cool, dry place and avoid excess heat. Keep container tightly closed when not in use. Keep product from freezing. Diluted mixture may be stored overnight.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. In case of spill or leak on floor or paved surfaces absorb with sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area until proper disposal can be made.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Non-refillable 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 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  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 the procedure two more times, then offer for recycling, if available or puncture and dispose of in a sanitary landfill or by other approved State or Local procedures.

#### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT.

**RISKS OF USING THIS PRODUCT** The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to lack of control of the target pests, resistance of the target pest to this product, injury caused by drift. Such risks of non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may impact the effectiveness of this product. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER. Valent shall not be responsible for losses or damages (including, but not limited to incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY** Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above.

To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY** To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

**PROMPT NOTICE OF CLAIM** To the extent consistent with applicable law allowing such requirements Valent must be provided Product Name/Label Number/Page # notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of application, so that an immediate inspection of the affected property can be made. To the extent consistent with applicable law if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS** Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

[Manufactured For:]  
Valent BioSciences Corporation  
Environmental Science Division  
870 Technology Way  
Libertyville, IL 60048  
1-877-315-9819

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[ ] Denotes alternate text in addition to any sub-set of the directions for use.