

87224-2

3/6/2012

Jacket

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND POLLUTION  
PREVENTION

John F. Wright  
Product & Regulatory Associates, LLC  
P.O. Box 351  
Voorhees, NJ 08043

MAR - 6 2012

Subject: Mebrom 100  
EPA Reg. No. 87224-2  
Phase 2 RED Mitigation Amendment Dated 6/15/11  
EPA Decision Number 462004

Dear Mr. Wright:

The amended label referred to above, submitted in connection with reregistration of methyl bromide under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following label revisions are made and the following conditions are met:

**LABEL REVISIONS**

1. On page 1, revise the paragraph under the product name to read "A Nematicide, Insecticide, Fungicide, Herbicide for Formulation or Repackaging into End-Use Pesticide Products Intended for Pre-plant Soil Uses or Commodity Food/Non-Food Uses."
2. On page 2, move the third paragraph under Precautionary Statements to the end of the PPE section.
3. On page 2, in the PPE section, make the following revisions:
  - a. Delete the second bullet so that the first and second bulleted statements read as one sentence. Therefore, add a coma after "socks" and make full-face lowercase.
  - b. In the third bulleted section, change 5 ppm to 1 ppm and (20 mg/m<sup>3</sup>) to (3.8 mg/m<sup>3</sup>).
4. On page 3, revise the second paragraph under Directions for Use to read "Methyl Bromide may be used only for repackaging or formulating into an end-use product intended for pre-plant soil use or commodity food/non-food use. Registration by the U.S. Environmental Protection Agency is required before the new product can be lawfully distributed in interstate commerce."
5. On page 3, between the third and fourth paragraphs under Directions for Use, add the following header "Special Use Instructions for the Formulation or Repackaging of

Methyl Bromide into an End-Use Pre-Plant Soil Fumigant.”

6. On page 3, in the fourth paragraph under Directions for Use delete the following commodities: Peppers (grown for fresh market in CA), Tomato (grown for fresh market in CA), Ginger (HI), and Vidalia Onion (GA).
7. On page 5, revise the Storage and Disposal section to read as follows:

**“STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a locked, well-ventilated area. Post as a pesticide storage area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

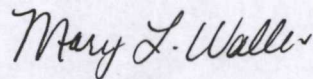
**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Return empty containers according to the Mebrom NV container return policy. Contact Mebrom NV for policy details. Replace safety caps and valve protection devices prior to return. Return partial containers only after consulting Mebrom NV for proper shipping instructions.”
8. On page 5, in the Spill and Leak Procedures section, change 5 ppm to 1 ppm.

## CONDITIONS

1. EPA has determined that the risk mitigation measures on the revised label for this product are necessary to adequately protect human health and the environment. Therefore, pursuant to 40 CFR § 152.130(d), EPA has decided that no product bearing previously approved labeling may be sold or distributed (released for shipment) by its registrant after December 1, 2012. Wherever state approval is required for sale or distribution of this product with this new labeling, EPA strongly encourages you to submit an application to the state authority as soon as possible. You should be aware that the Agency does not intend to modify the December deadline because of any failure to obtain state approvals.
2. Submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

One copy of the label stamped "Accepted with comments" is enclosed for your records. If you have any questions, please contact Susan Bartow by phone at (703) 603-0065 or via email at bartow.susan@epa.gov or me by phone at (703)308-9354 or via email at waller.mary@epa.gov.

Sincerely,



Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7504P)

Enclosure

with COMMENTS 4/10  
In EPA Letter Dated:

3/6/2012

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.

87224-2

# MEBROM 100

A Nematicide, Insecticide, Herbicide for Formulation or Repackaging  
Into Restricted End-Use Pesticide Products Intended for Terrestrial,  
Greenhouse, Domestic Outdoor and Indoor Food and Non-Food Uses.

**ACTIVE INGREDIENT: Methyl bromide.....100%**



**DANGER • POISON • PELIGRO**



**KEEP OUT OF REACH OF CHILDREN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en  
detalle.

(If you do not understand the label, find someone to explain it to you in detail).

First Aid	
If inhaled:	<ul style="list-style-type: none"> <li>• Move person to fresh air. Keep warm.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Do not give anything by mouth to an unconscious person. If not unconscious, rinse mouth out with water.</li> <li>• In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.</li> </ul>
If on skin or clothing:	<ul style="list-style-type: none"> <li>• Immediately remove contaminated clothing, shoes, and any other item on skin.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.</li> </ul>
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>• In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.</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. You may also contact 1-800-535-5053 for emergency treatment information.	
<b>NOTE TO PHYSICIAN</b>	
Early symptoms of overexposure are dizziness, headache, nausea and vomiting, weakness and collapse. Lung edema may develop in 2 to 48 hours after exposure, accompanied by cardiac irregularities; these effects are the usual cause of death. Repeated overexposures can result in blurred vision, staggering gait and mental imbalance, with probable recovery after a period of no exposure. Blood bromide levels suggest the occurrence, but not the degree, of exposure. Treatment is symptomatic.	

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**EPA REG. NO. 87224-2**

**EPA EST. NO. XXX**

**Net contents:**

**Manufactured for:**

**Mebrom NV**

**Assenedestraat 4**

**Rieme – Ertvelde, 9940**

**Belgium**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

Extremely hazardous liquid and vapor under pressure. Do not breathe vapor. Inhalation may be fatal or cause serious acute illness or delayed lung or nervous system injury. Liquid or vapor can cause serious skin or eye injury which may have a delayed onset. Do not get liquid on skin, in eyes or on clothing.

Methyl bromide vapor is odorless and nonirritating to skin and eyes during exposure. Exposure to toxic levels may occur without warning or detection by user.

Methyl bromide is heavier than air and may be trapped inside clothing and cause skin injury. If liquid spills or splashes on clothing, shoes or socks, remove them immediately. Do not reuse contaminated clothing or shoes until thoroughly aerated or ventilated and cleaned. Discard clothing and shoes that have been heavily drenched or contaminated with this product.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

- Wear loose-fitting or well ventilated long-sleeved shirt and long pants, shoes and socks.
- Full-face shield or safety glasses with brow and temple shields (DO NOT WEAR GOGGLES) when handling liquid product.
- A respirator is required if the acceptable air concentration level of methyl bromide in the working area, as measured by a direct-reading detector device (e.g. Draeger hand pump and detector tube, etc.) exceeds 5 ppm (20 mg/m<sup>3</sup>). The respirator must be one of the following types:
  - a supplied-air respirator (MSHA/NIOSH approved number prefix TC-19C) OR
  - a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).
- Do not wear jewelry, gloves or boots when handling.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to mammals, birds and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS**

Contents under pressure. Do not use or store near heat or open flame. In fires fueled by other materials, methyl bromide may liberate hazardous gases. The use of methyl bromide with aluminum, magnesium, zinc and alkali metals will result in the liberation of toxic gases, and possible fire and explosion. In addition, severe corrosion of containers and equipment made of these metals will occur.

**DIRECTIONS FOR USE**

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

Methyl Bromide may be used only for repackaging or formulating into an economic poison end-use product intended for Terrestrial, Greenhouse, Domestic Outdoor, and Indoor Food and Non-Food Uses. Registration by the U. S. Environmental Protection Agency is required before the new product can be lawfully distributed in interstate commerce.

Methyl bromide is a highly hazardous material and must be used only by individuals trained in its proper use. All persons working with methyl bromide must be knowledgeable about the hazards, and trained in the use of required respirator equipment and detector devices, emergency procedures, and proper use of the fumigant.

Only for formulation into a pre-plant soil fumigant for uses, users, and locations that at the time of the application qualify for exemptions under the Montreal Protocol (e.g., critical use exemption or quarantine and preshipment exemption uses) and for the following uses that do not qualify for exemptions: Peppers (grown for fresh market in CA), Tomato (grown for fresh market in CA), Caneberries (Raspberries, Blackberries, Boysenberries), Ginger (HI), Vidalia Onion (GA), Golf Course Tees, Greens, and Fairways, Athletic Fields, and Tobacco Seedling Trays. All end use products that contain *Directions for Use* for crops/use sites that at the time of the application do not qualify for exemptions under the Montreal Protocol or that are not listed above must be changed to remove those crops/use sites. All structural/space uses have been cancelled.

Methyl bromide formulated into end-use products containing 98% methyl bromide must contain directions for use only for the following uses: orchard replant; ornamentals (hot gas method only); forest seedlings; golf course tees, greens, and fairways (hot gas method only); athletic fields (hot gas method only); and quarantine uses. All other use sites and use patterns are prohibited and must be removed from the end-use product labeling.

Methyl bromide cannot be formulated into end-use products labeled for pre-plant uses without the use of tarps with the exception of California orchard replant for Critical Use Exemption (CUE) use using the deep broadcast application method and hand held tree-hole applications.


Methyl bromide cannot be formulated into end-use products labeled for pre-plant or pre-transplant uses unless the end-use registrant makes available to certified applicators who purchase or apply the end-use product a registrant developed training program approved by EPA. The training program must provide information on (1) how to correctly apply the fumigant, including how to comply with new label requirements; (2) how to protect handlers and bystanders; (3) how to determine buffer zone distances; (4) how to complete an FMP and the post-application summary; (5) how to determine when weather and other site-specific factors are not favorable for fumigant application; (6) how to comply with required GAPs and how to document compliance with GAPs in the FMP; and (7) how to develop and implement emergency response plans. The registrant developed training program must be made available at least annually to the certified applicators. The end-use registrant must be able to provide, upon request, the names, addresses, and certified applicator license and/or certificate number of persons who successfully complete the registrant developed training program.

Methyl bromide cannot be formulated into end-use products labeled for pre-plant or pre-transplant uses unless the end-use registrant ensures Buffer Zone signs suitable for posting buffer zones or templates for the buffer zone signs are available to its downstream distributors/customers who in turn will provide the signs at the point of sale. Templates may be downloaded from [http://www.epa.gov/pesticides/reregistration/soil\\_fumigants/index.htm](http://www.epa.gov/pesticides/reregistration/soil_fumigants/index.htm).

The Buffer Zone sign must meet the following standards:

- Signs must remain legible during the entire posting period, and must meet the general standards outlined in the WPS for sign size, text size, and legibility (see 40 CFR §170.120).

**Contents of Sign**



-- DO NOT ENTER/NO ENTRE,  
 -- Methyl Bromide Mebrom 100 Fumigant BUFFER ZONE,  
 -- space for contact information for the certified applicator in charge of the application.

This product may be used to formulate products for any additional use(s) not listed on the MUP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of such use(s).

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Do not contaminated water, food, or feed by storage. Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subject to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other devices to which the cylinder can be firmly secured. Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders. Return empty cylinders freight collect to the Mebrom location from which shipment was made. Return partial cylinders only after consulting Mebrom for proper shipping instructions. In either case, use delivering carrier when possible.

Lot Number:

**SPILL AND LEAK PROCEDURES**

Immediately evacuate everyone from the area of the spill or leak. For entry into affected area to correct problem, wear the personal protective equipment (including prescribed respirator) specified under PERSONAL PROTECTIVE EQUIPMENT section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe strict safety precautions. Work upwind, if possible. Allow spilled fumigant to evaporate. Only correctly trained and PPE-equipped handlers are permitted to perform such cleanup. Do not permit entry into the spill or leak area by any other person until the air concentration level of methyl bromide is measured to be less than 5 ppm.

Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-8802) if the reportable quantity of 1000 pounds is exceeded.



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**WARRANTY DISCLAIMER AND NOTICE**

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, MEBROM NV MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Mebrom is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, MEBROM NV DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT MEBROM'S NV ELECTION, THE REPLACEMENT OF PRODUCT.

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NET WT. \_\_\_\_\_

LOT NUMBER \_\_\_\_\_



**WARNING:**

Contains Methyl Bromide, a substance which harms public health and environment by destroying ozone in the upper atmosphere.