

# RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those used covered by the Certified Applicator's certification.

# METABROM 100

<b>ACTIVE INGREDIENT:</b>	<b>By Wt.</b>
METHYL BROMIDE.....	<u>100.0%</u>
TOTAL.....100%	

**ACUTELY TOXIC CHEMICAL**  
14.4 LBS. Active Ingredient per gal. (LIQUID IN CYLINDER)

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**PELIGRO**



**POISON**

**ACCEPTED**

JUL 8 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 8622-14

**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.)**

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</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>• Call a poison control center or doctor for further 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>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 eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment	
<b>NOTE TO PHYSICIAN</b>	
"Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage."	

EPA REG. NO. 8622-16

- EPA EST. NO.67545-AZ-01
- EPA EST. NO. 15298-IS-01
- EPA EST. NO. 29516-FL-04
- EPA EST.NO. 29516 -NC-01
- EPA EST. NO. 5785-CA-01
- EPA EST. NO. 7747-CA-01

**Ameribrom, Inc.**

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**IN CASE OF EMERGENCY CONTACT:**

**CHEMTREC (800) 424-9300**

or

AMERIBROM WEST  
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CAMARILLO, CA 93010  
TELEPHONE: (805) 988-9719 (CA)

AB04

3/02

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
DANGER  
HIGH ACUTE TOXICITY**

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 non-irritation to skin and eyes during exposure. Exposure to toxic levels may occur without warning or detection by the user.

**NOTE TO PHYSICIAN:** 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 overexposure can result in blurred vision, staggering gait and metal 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.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to wildlife 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 HAZARDS:** Do not use or store near heat, open flames, or sparking electrical equipment.

**CHEMICAL HAZARDS:** Do not use application devices incorporating natural rubber or aluminum or magnesium or their alloys.

**DIRECTIONS FOR USE**

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

**PROTECTIVE CLOTHING:** Wear loose clothing and socks that are cleaned after each wearing. Do not wear jewelry, gloves or boots when handling. Methyl bromide is heavier than air and may be trapped inside clothing and cause skin injury. If full-face respiratory protection is not required, wear full face shield or safety glasses with brow and temple side shields (DO NOT WEAR GOGGLES) for eye protection when handling liquid. After application, immediately remove clothing, shoes and socks. Do not reuse contaminated clothing or shoes until cleaned Drenched clothing cannot be adequately decontaminated.

**PESTICIDE STORAGE, HANDLING AND DISPOSAL**

**PESTICIDE STORAGE AND HANDLING:** Store in a secure manner either outdoors under ambient conditions, or indoors in a well ventilated area. Post as a pesticide storage area.

Do not contaminate water, food or feed by disposal. Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected 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 device 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, either contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance, or follow registrant's instructions for return of partially empty cylinders. Do not contaminate water, food, or feed by disposal

**CONTAINER DISPOSAL:** When cylinder is empty, close valve by turning clockwise until hand tight, 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 OF CYLINDERS:**

- (1) Cylinders are the property of the manufacturer or distributor where purchased and should be returned promptly by collect freight.
- (2) Do not ship cylinders without safety caps or valve protection bonnets.
- (3) When a cylinder is partially full and there is no further requirement for the product, contact the manufacturer or distributor for return instruction.
- (4) Containers should never be refilled by the consumer or used for any other product or purpose.

**SPECIFIC DIRECTIONS FOR USE**

This fumigant is a highly hazardous material and should be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions, including those in the Manual for the Safe Handling and Application of Methyl Bromide Products No. AM-210.

All persons working with this fumigant 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 (see the Product Manual No. AM-210).

THIS PRODUCT IS TO BE USED for control of pests in stored or residual food products, agricultural commodities and other materials and products as specified on this label. This product is to be used for these purposes ONLY IN: (a) enclosed spaces and structures that are intended or used for processing, transportation, handling, or storage of feed products, agricultural commodities or other materials and products identified on this label; (b) enclosed spaces and structures in which food products, agricultural commodities, or other materials and products identified on this label have been processed, transported, handled or stored; and, when this product is used for the foregoing purposes, (c) associated storage areas, work areas and food service facilities (such as employee cafeterias and test kitchens). DO NOT USE THIS PRODUCT IN residential structures or in food service facilities (such as public restaurants) other than those described above, or for any purposes other than those described above.

**PRECAUTIONS FOR USAGE for fumigation of raw and processed foods.**

When used for fumigation of enclosed spaces containing raw and processed foods such as warehouses, grain bins or elevators, vaults, chambers, vans, boxcars, ships and other transport vehicles and tarpaulin-covered areas or commodities, two persons trained in the use of this product must be present during introduction of the fumigant, initiation of aeration and after aeration when testing for reentry. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated).

Do not fumigate with this product when commodity temperature is below 40°F.

Specific directions for use on commodities and structures or vehicles, ships, etc., are given in the Product Manual No. AM-210.

**Placarding Required:** The applicator must placard or post all entrances to the fumigated area with signs bearing, in English and Spanish:

1. The signal word DANGER/PELIGRO and the skull and crossbones symbol.
2. The statement, "Area under fumigation, DON NOT ENTER/NO ENTRE"
3. The date of fumigation.
4. Name of fumigant used.
5. Name, address, and telephone number of the applicator.

Do not remove a placard until the treated commodity is completely aerated. To determine whether aeration is complete, each fumigated site or vehicle must be monitored and shown to contain less than 5 ppm methyl bromide in the air space around and, when feasible, in the mass of the commodity. If less than 5 ppm methyl bromide is detected, the placard may be removed. However, if 5 ppm or greater methyl bromide is detected the placard must be transferred with the commodity to the new site. Workers who transfer or handle incompletely aerated commodity must be informed and appropriate measures must be taken (i.e. ventilation or respiratory protection) to prevent exposures from exceeding 5 ppm or greater methyl bromide.

**Respiratory Protection:** If the concentration of methyl bromide in the working area, as measured by a direct-reading detector device (e.g. Draeger, etc as described in the Product Manual), does not exceed 5 ppm (20 mg/rn<sup>3</sup>), no respiratory protection is required.

If this concentration is exceeded at any time, all persons in the working area must wear protective clothing and a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator (see the Product Manual No AM-210).

**Aeration and Reentry:** After fumigation, treated areas must be aerated until the level of methyl bromide is below 5 ppm. Do not allow entry into the treated area by any person before this time unless protective clothing and a respiratory protection device (SCBA or combination air-supplied/SCBA) is worn.

**Spill and Leak Procedures:** Evacuate immediate area of spill or leak. Use SCBA or combination air-supplied/SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders or containers outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spill to evaporate. Do not permit entry into spill area by unprotected persons until concentration of methyl bromide is determined 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 lbs. is exceeded.

### COMMODITY FUMIGATION INSTRUCTIONS

**Dosage:** The usual dosage rate for each 1 000 cu. ft. will range from 1 to 6 lbs., 12 to 24 hours exposure. depending on tightness of structure and kind and amount of commodity in storage

**Rats and Mice:** Metabrom 100 applied by this treatment will kill rats and mice that are exposed to the gas.

Consult Product Manual No AM-210 for further use and safety information. See Table I and II for commodity, insects controlled, dosage and exposure time.

**TABLE I**  
**COMMODITY AND DOSAGE RATE**  
**FOR STORED PRODUCTS PESTS INFESTING RAW AGRICULTURAL**  
**COMMODITIES (NOT PRECESSED FOOD)<sup>1</sup>**

<b>Commodity</b>	<b>Insects controlled</b>	<b>Tolerance (ppm)</b>	<b>Dosage (lbs./1000 cu. ft.)</b>	<b>Exposure Time (hrs.)</b>
Almonds	Confused flour beetle, saw toothed grain	200	3.5	24
Brazil Nuts	Beetle, dermestids, Indian meal moth, rice	200	3.5	24
Bushnuts	weevil, Khapra beetle, drugstore beetle,	200	3.5	24
Butternuts	cigarette beetle, warehouse moth, rusty	200	3.5	24
Cashews	grain beetle, cadelle, groundnut bruchid	200	3.5	24
Chestnuts		200	6	6
"		200	3.5	24
Filberts		200	3.5	24
Hickory Nuts		200	3.5	24
Peanuts		200	3.5	24
Pecans		200	3.5	24
Pistachios nut		200	3.5	24
Walnuts		200	3.5	24
Apples	Oriental fruit moth, codling moth, apple	5	5	2
Apricots	maggot, apple curculio, twig borer, melon	20	5	2
Cherries	fruit fly, Mediterranean fruit fly, Oriental fruit	20	5	2
Nectarines	fly, cherry fruit fly, brown mite, green peach	20	5	2
Peaches	aphid, scales thirps	20	5	2
Pears		5	5	2
Plums		20	5	2
Quinces		5	5	2
Strawberries		60	2-3	3-4
Prunes	Coffee bean weevil, Australian spider beetle, saw toothed and merchant grain beetles, dried fruit beetles, Indian meal moth, confused flour beetle, drugstore beetle, warehouse moth, common grain mite.	20	5	2
Barley	Granary weevil, lesser grain borer, rusty	50	5	12
Corn	grain beetle, angoumois grain moth, Indian	50	2	24
Oats	meal moth, confused flour beetle, rice	50	3	24
Popcorn	weevil, saw toothed grain beetle	240	1.5	2(a)
Rice	Lesser grain borer, cadelle, Khapra beetle,	50	6	12(b)
"	drugstore beetle, Australian spider beetle,	50	3	24
Rye	cigarette beetle, warehouse moth, common	50	3	24
"	grain mite, flat grain beetle, Mediterranean	50	6	12(b)
Sorghum (gn)	lour moth, red flour beetle, common bean	50	4	24
Dried Peas	weevil, copra beetle.	125	4	24
Wheat		50	3	24
Copra		100	2.5	24

Beans (all)	Armyworms, cabbage looper, European	50	3.5	24
Beets (roots)	corn borer, Japanese beetle, pod borers,	30	3	4
Cabbage	Oriental fruit fly, Mediterranean fruit fly, corn	50	4	4(d)
Cantaloupe	earworm green stink bug, sowbugs, spider	20	2.5	2
Carrots	mites, cabbage maggots, lygus bug, melon	30	4	4
Citron	aphid, pickelworm, carrot rust fly, stink bug,	30	3	2
Cucumbers	bean leaf beetle, Mexican bean beetle,	30	2.5	4
Eggplant	diabrotica beetle, cucumber beetle, squash	20	3	4
Honeydew	bug, false chinch bug, loopers, symphylans,	20	2.5	2
Melons	blister beetles, onion maggot, onion thrips,			
Jerusalem	Mealybugs.	30	3.5	4
Artichokes				
Muskmelons	Pepper maggot, Colorado potato beetle,	20	2.5	2
Okra	potato psyllid, squash bug, squash vine	30	3.5	2(c)
Onions	borer, earwigs, darkling beetle.	20	3	6
Parsnips				
(roots)		30	3	4
Peas		50	3	2
(with Pods)				
Sweet Corn		50	3	4
Peppers		30	4	2
Pimentos		30	2.5	3
Pineapples		20	2	4
Potatoes		75	3	6
Pumpkins		20	2.5	2
Radishes		30	3	4
Rutabagas		30	3	6
Squash		30	4	2
(summer)				
Squash		20	4	2
(winter)				
Squash		20	2.5	3
(zucchini)				
Sugar Beets		30	3	4
(roots)				
Sweet		75	3.5	4
Potatoes				
Tomatoes		20	3	4
Turnips(roots)		30	3	4
Watermelons		20	2.5	2
Yams		30	3.5	4
Grapefruit	<i>Anastrepha spp., proeulia spp.,</i>	30	3	2
Grapes	<i>leptoglossus spp., megalometis spp.,</i>	20	4	2
Kumquat	<i>naupactus spp., listroderes spp., conoderus</i>	30	3	2
Lemons	<i>spp., brevipalpus spp.,</i> ants, aphids, citrus	30	3	2
Lime	scale, citrus mites, leaf rollers, white files,	30	3	2
Orange	thrips, California orange clog, mealybugs,	30	3	2
Ranges	orange tortrix	30	3	2
Tangelos		30	3	2
Tangerines				

- (1) Consult APHIS Treatment Manual for additional rates and commodities
- (2) Tolerance of fruit to methyl bromide may vary with different varieties. Check with local authorities or Ameribrom, Inc. before treating.
  - (a) Chamber fumigation
  - (b) Khapra beetle quarantine
  - (c) Pink bollworm quarantine
  - (d) Must be used in accordance with the plant quarantine program of the USDA

**TABLE II**  
**COMMODITY AND DOSAGE RATE**  
**FOR PROCESSED FOOD**

Commodity	Insects Controlled	Tolerance (ppm)	Dosage (lbs./1000 Cu. ft.)	Exposure Time (hrs.)
Apples (dried) <sup>(d)</sup>	Saw toothed beetle, merchant beetle, dried	125	1-1 1/2	24
Apricots (dried) <sup>(d)</sup>	fruit beetle, Indian meal moth, confused	125	1-1 1/2	24
Cherries (dried)	Flour beetle, Australian spider beetle,	125	1	24
Dates <sup>(d)</sup>	Cigarette beetle, warehouse moth, common	125	1-1 1/2	24
Figs (dried) <sup>(d)</sup>	Grain mite, coffee bean weevil	250	1-1 1/2	24
Peaches(dried) <sup>(d)</sup>		125	1-1 1/2	24
Prunes (dried) <sup>(d)</sup>		125	1-1 1/2	24
Raisins (dried) <sup>(d)</sup>		125	1-1 1/2	24
Cheese (parmesan and roquefort)	Cheese mite, cheese skipper, cheese Maggot	325	1-2	12-24
Eggs (dried)	Larder beetle	400	1-2	12-24
Ham Houses	Cheese skipper, larder beetle, red legged Ham beetle, mites	325	1-2	12-24
Processed Foods	Saw toothed beetle, flat grain beetle, flour Beetle, cigarette beetle, Indian meal moth	125	1-2	12-24
Processed Grain <sup>(a)</sup>	Confused flour beetle, rice weevil, granary weevil, saw toothed grain beetle, rusty grain beetle, lesser grain borer, cadelle, Khapra beetle, drugstore beetle, Australian spider beetle, cigarette beetle.	125	1.5	24
Processed Grain <sup>(b)</sup>	Flour beetle, saw toothed grain beetle, Mediterranean flour moth.	125	1-2	12-24
Processed Grain <sup>(c)</sup>	Flour beetle, grain beetle, mealworms, Cigarette beetle, Indian meal moth.	125	1.5	24
Spices And Herbs (dried)	Saw toothed beetle, flat grain beetle, Cigarette beetle, <i>trogoderma spp.</i> , Indian Meal moth, dried fruit beetle, Australian Spider beetle, warehouse moth, confused Flour beetle, rusty grain beetle, lesser grain borer, drugstore beetle.	400	3	12
Cipolini Bulbs	Exosoma lusitanica	50	4	4
Cocoa Beans	Coco moth, cigarette beetle, confused flour beetle, warehouse moth, flat grain beetle, coffee bean weevil	50	1.5	12 <sup>(a)</sup>



Cotton Seed	<i>Pectinophora spp.</i> , Khapra beetle, boll weevil, saw toothed grain beetle	200	8	24 <sup>(b)(c)</sup>
Horseradish (roots)	<i>Baris lepidi</i>	30	3	4
Garlic	<i>Brachycera spp.</i> , duspessa ulula, brown Wheat mite, onion maggot, onion thrips	50	3	4
Salsify Roots	Armyworm, flea beetle, leaf hoppers, stink bugs, tarnished plant bug	30	3	4
Hay (alfalfa)	Alfalfa weevil, cereal leaf beetle	50	3	24

- (a) Corn grits and cracked rice
- (a) Processed grain from equipment fumigation
- (b) Processed grain used in production of fermented beverages
- (c) Use 1 ½ # / 1000 cu. ft. with temperature between 50-59°F and 1 # / 1000 cu. ft. when over 60°F

**California Proposition 65 WARNING:** This product contains methyl bromide. When used as a structural fumigant, methyl bromide is known to the State of California to cause birth defects or other reproductive harm.

Warranty; Seller warrants that the product conforms to its Chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

**WARNING:** Contains methyl bromide, a substance which harms public health and environment by destroying ozone in the upper atmosphere.