{All text in brackets [xxx] is optional and may or may not be intended on a final label.} {All text in braces {xxx} is administrative and will not appear on a final label.}

#### RESTRICTED USE PESTICIDE

(DOA: 05292018)

#### **Due to Acute Toxicity**

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 certification.

### **METABROM Q**

Fumigant For Quarantine/Regulatory Use Only. Supervision by Regulatory Agent Required.

#### **ACTIVE INGREDIENT:**

Methyl Bromide	<u>100%</u>
Total	100%

## ACCEPTED

Aug 31, 2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 8622-55

#### **ACUTELY TOXIC CHEMICAL**

14.4 pounds per gallon (liquid in cylinder)

#### KEEP OUT OF REACH OF CHILDREN





{Statements to be placed on front panel}

THE USE OF THIS PRODUCT IS STRICTLY PROHIBITED IN RESIDENTIAL STRUCTURES INCLUDING, BUT NOT LIMITED TO, SINGLE AND MULTI-FAMILY RESIDENTIAL PROPERTIES, AND DAYCARE FACILITIES.

THE USE OF THIS PRODUCT IS ALSO STRICTLY PROHIBITED IN NURSING HOMES, HOTELS, DORMITORIES, SCHOOLS, HOSPITALS, AND PUBLIC RESTAURANTS.

DO NOT STORE IN OR WITHIN 100 FEET OF A RESIDENCE. STORE IN A DRY, COOL, WELL-VENTILATED AREA UNDER LOCK AND KEY.

METHYL BROMIDE IS A NEUROTOXIC GAS THAT CAN CAUSE SEVERE RESPIRATORY ISSUES, CONVULSIONS, COMA, LONG-TERM HARM TO THE NERVOUS SYSTEM, OR DEATH.

READ ALL LABELING BEFORE USING THIS PRODUCT AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS.

IF YOU DO NOT UNDERSTAND THE LABEL, FIND A CERTIFIED APPLICATOR TO EXPLAIN IT TO YOU IN DETAIL. (SI USTED NO ENTIENDE LA ETIQUETA, BUSQUE A UN APPLICADOR CERTIFICADO PARA QUE SE LA EXPLIQUE A USTED EN DETALLE.)

In case of emergency, contact CHEMTREC: 800-424-9300 or 703-527-3887 (Collect calls accepted)

*{the following statement may be used to reference label booklet}* 

Refer to inside of label booklet for additional precautionary information including Directions for Use.

Notice: Read the entire label and label booklet. Use only according to label directions. Additional information

is provided in the [attached] Metabrom Q label booklet.

#### **FIRST AID**

**If inhaled:** 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 poison control center or doctor for treatment advice.

(DOA: 05292018)

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

**If in eyes:** 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 eyes. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center (1-800-222-1222) or doctor, or going for treatment. You may also contact 1-888-875-1685 for emergency medical treatment information.

**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 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.

{The following statements (Precautionary Statements through Storage and Disposal) may be used for optional formatting and design}

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS DANGER

Extremely hazardous liquid and vapor under pressure. Fatal if inhaled or swallowed. Corrosive. Causes skin burns and irreversible eye damage, both of which may have a delayed onset. Do not breathe vapor or gas. Inhalation may cause serious acute illness or delayed lung, nerve, or brain injury. Do not get in eyes, on skin or on clothing.

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

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to mammals and birds. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of equipment washwater or rinsate.

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.

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Persons moving, handling, or opening fumigant containers must wear the personal protective equipment (including prescribed respirators when necessary) specified in the *Personal Protective Equipment* section of this labeling. 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

**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. 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 of Cylinders:** Cylinders are the property of the manufacturer or distributor where purchased and must be returned promptly by collect freight. Do not ship cylinders without safety caps or valve protection bonnets. When a cylinder is partially full and there is no further requirement for the product, contact the manufacturer or distributor for return instructions. Do not refill containers or use them for any other product or purpose.]

#### Produced for:

ICL-IP America, Inc. 11636 Huntington Road Gallipolis Ferry, WV 25515 Telephone: 1-877-661-4272

EPA Reg. No. 8622-55 EPA Est. No. 11220-CA-8

[Label No		
NET CONTENTS:	lbs /	kgs
[Batch][Lot] No.		

{the following optional statement may be used to reference label booklet}

See Metabrom Q label booklet for complete label language, including Commodity Fumigation Instructions/Respirator Requirements & Work Time Restrictions, and Directions for Use. Read entire label booklet and use only according to label directions.

{All text in brackets [xxx] is optional and may or may not be intended on a final label.} {All text in braces {xxx} is administrative and will not appear on a final label.}

{the following text shall appear in the Metabrom Q label booklet. Booklet begins here}

READ THIS BOOKLET AND ENTIRE LABEL CAREFULLY PRIOR TO USE. USE THIS PRODUCT ACCORDING TO LABELING INSTRUCTIONS.

# 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 uses covered by the Certified Applicator's certification.

## METABROM Q Fumigant

#### **ACTIVE INGREDIENT:**

 Methyl Bromide.
 100%

 Total
 100%

#### **ACUTELY TOXIC CHEMICAL**

14.4 pounds per gallon (liquid in cylinder)

#### KEEP OUT OF REACH OF CHILDREN





**PELIGRO** 

(DOA: 05292018)

{Statements to be placed on front panel}

THE USE OF THIS PRODUCT IS STRICTLY PROHIBITED IN RESIDENTIAL STRUCTURES INCLUDING, BUT NOT LIMITED TO, SINGLE AND MULTI-FAMILY RESIDENTIAL PROPERTIES, AND DAYCARE FACILITIES.

THE USE OF THIS PRODUCT IS ALSO STRICTLY PROHIBITED IN NURSING HOMES, HOTELS, DORMITORIES, SCHOOLS, HOSPITALS, AND PUBLIC RESTAURANTS.

DO NOT STORE IN OR WITHIN 100 FEET OF A RESIDENCE. STORE IN A DRY, COOL, WELL-VENTILATED AREA UNDER LOCK AND KEY.

METHYL BROMIDE IS A NEUROTOXIC GAS THAT CAN CAUSE SEVERE RESPIRATORY ISSUES, CONVULSIONS, COMA, LONG-TERM HARM TO THE NERVOUS SYSTEM, OR DEATH.

READ ALL LABELING BEFORE USING THIS PRODUCT AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS.

IF YOU DO NOT UNDERSTAND THE LABEL, FIND A CERTIFIED APPLICATOR TO EXPLAIN IT TO YOU IN DETAIL. (SI USTED NO ENTIENDE LA ETIQUETA, BUSQUE A UN APPLICADOR CERTIFICADO PARA QUE SE LA EXPLIQUE A USTED EN DETALLE.)

**In case of emergency, contact** CHEMTREC: (800) 424-9300 or (703) 527-3887 (Collect calls accepted) [24 Hrs.]

{the following optional statement may be used to reference label booklet}
See Metabrom Q label booklet for complete label language, including Commodity Fumigation
Instructions/Respirator Requirements & Work Time Restrictions, and Directions for Use. Read entire label booklet and use only according to label directions.

	FIRST AID
If inhaled	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 poison control center or doctor for treatment advice.
If	Call a poison control center or doctor immediately for treatment advice.
swallowed	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to by a poison control center or doctor.
	Do not give anything to an unconscious person.
If in eyes	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 eyes.
	Call a poison control center or doctor for treatment advice.
If on skin	Take off contaminated clothing.
or clothing	• Rinse skin immediately with plenty of water for 15-20 minutes.
	Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center (1-800-222-1222) or doctor, or going for treatment. You may also contact 1-888-875-1685 for emergency medical treatment information.

#### 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 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 additional precautionary statements inside of Metabrom Q label booklet. Read entire label. Use only according to label directions.

In case of emergency, contact CHEMTREC: 800-424-9300 or 703-527-3887 (Collect calls accepted) [24 Hrs.]

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS DANGER

Extremely hazardous liquid and vapor under pressure. Fatal if inhaled or swallowed. Corrosive. Causes skin burns and irreversible eye damage, both of which may have a delayed onset. Do not breathe vapor or gas. Inhalation may cause serious acute illness or delayed lung, nerve, or brain injury. Do not get in eyes, on skin or on clothing.

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

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other fumigation handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Protective eyewear when handling liquid.
- In addition, when a respirator is required in this label's *Respirator Requirements* section of the Directions for Use, applicators and other fumigation handlers must wear:
  - o a supplied air respirator (NIOSH approval number prefix TC-19C),
  - o a self-contained breathing apparatus (SCBA) (NIOSH approval number prefix TC-13F), or
  - o if methyl bromide concentrations are less than 5 ppm, a NIOSH-certified half-mask or full-face

piece air-purifying respirator with a cartridge certified by the manufacturer for protection from exposure to methyl bromide at concentrations up to 5 ppm (e.g., a 3M air-purifying respirator equipped with 3M Model 60928 Organic Vapor/Acid Gas/P100 cartridges).

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See the "User Safety Requirements" section for additional restrictions.

Fumigation handlers entering the fumigation site before methyl bromide has been introduced to the treatment area or after the aeration period has ended are not required to wear the PPE listed above, except when moving, handling, opening fumigant containers, or when taking corrective action when a spill or leak has occurred.

#### **USER SAFETY REQUIREMENTS**

• Respirator Requirements:

When a respirator is required for use with this product, the certified applicator supervising the fumigation must make sure that:

- O Respirators must be fit tested and fit checked using a program that conforms with OSHA's requirements (described in 29 CFR Part 1910.134);
- o Respirator users must be trained using a program that conforms with OSHA's requirements (described in 29 CFR Part 1910.134);
- o Respirator users must be examined by a qualified medical practitioner to ensure the physical ability to safely wear the style of respirator to be worn;
- o Respirators must be maintained according to a program that conforms with OSHA's requirements (described in 29 CFR Part 1910.134.)
- Do not wear jewelry, rubber gloves, goggles, tight clothing, rubber protective clothing, or rubber boots when handling. Methyl bromide can be trapped inside clothing or objects and cause skin injury.
- If liquid fumigant splashes or spills on clothing, remove them at once and place them outdoors in an isolated place to aerate, because vapor or gas will be an intolerable source of irritation.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Air dry clothes in an isolated place prior to disposal.
- At the end of the work day remove outer clothing, shoes, and socks. Do not reuse contaminated clothing or shoes until cleaned. Keep and wash the clothing and shoes separately from other laundry.
- Follow manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

#### **USER SAFETY RECOMMENDATIONS**

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to mammals and birds. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of equipment washwater or rinsate.

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. Do not apply this product in a way that will contact handlers or other persons, either directly or through drift. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### Applications in California:

• Where a Restricted Materials Permit with site-specific Final Permit Conditions is required for fumigation

pursuant to Title 3 of the California Code of Regulations section 6400, the certified applicator must follow the conditions and instructions specified in the Final Permit Conditions issued by the County Agricultural Commissioner provided that the buffer zone distances are equal to or greater than the buffer zone distances specified in the August 8, 1994 California Methyl Bromide Commodity Fumigation Reference Manual in place of the following sections of this label: *Buffer Zones*; *Buffer Zone Entry Restrictions*; *Respirator Requirements & Work Time Restrictions*; and Aeration Period.

(DOA: 05292018)

This is a Restricted Use Pesticide. This fumigant is a highly hazardous material and may be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions.

This is a limited use label for quarantine/regulatory purposes and is to be used by or under the supervision of a State or Federal agency. 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, (c) when this product is used for the foregoing purposes, storage areas, and work areas and other areas which are located within or adjacent to the facility (such as employee break rooms, food service areas, or test kitchens) and which cannot be isolated from the treatment area may be considered part of the treatment area if they are evacuated of all persons who are not applicators or other fumigation handlers. DO NOT USE THIS PRODUCT IN residential structures or in public food service facilities (such as public restaurants) or for any purposes other than those described above.

#### **Application Restrictions:**

- Two fumigation handlers must be present during the treatment period, at the initiation of aeration, and when testing for reentry to the treatment area. Only one fumigation handler needs to be present if monitoring is conducted remotely (from outside the treatment area).
- Fumigation handlers must be under direct on-site supervision of the certified applicator at the start of the fumigation, at the initiation of aeration, and when testing for reentry to the treatment area.
- Except as allowed under APHIS or other governmental quarantine treatment schedules, do not fumigate with this product when the space, commodity, or structure to be fumigated is below 40°F for control of insects or below 20°F for control of rodents and other warm-blooded pests.

#### **Terms Used in This Labeling:**

- <u>Aeration Buffer Zone</u>: an area that extends from the point of methyl bromide emission from the treatment area (e.g., exhaust stack or building edge) to a specified distance where access is limited. Entry by any person except the certified applicator and authorized fumigation handlers under his/her direct supervision is prohibited except as provided in the *Exceptions to Buffer Zone Entry Restrictions* section of the label. The aeration buffer zone begins when aeration begins and ends when the air concentration of methyl bromide in the breathing zone of the treatment area for structural fumigation, or in the air space around the treated commodity is 5.0 ppm or less. Once the aeration buffer zone expires, *Respirator Requirements and Work Time Restrictions* continue only in the treatment area until the end of the aeration period.
- <u>Aeration Period</u>: the period of time starting at the initiation of aeration and ending when the concentration of methyl bromide is 5.0 ppm or less as measured according to the directions in the *Aeration Period* section of the label and the minimum aeration time has elapsed.
- <u>Business</u> (as referenced in the *Emergency Preparedness Measures* section): Structures and outdoor areas where business is conducted; e.g., offices, shops, equipment yards.
- <u>Breathing Zone</u>: Areas where individuals typically stand, sit or lie down while performing work functions.
- Exhaust Stack: A duct used to exhaust methyl bromide from the Treatment Area.

- <u>Fumigation Site:</u> The location at which fumigation activities will be conducted, at a minimum encompassing the treatment area, buffer zones, and any secondary aeration locations.
- <u>Fumigation Handlers</u>: Persons at the Fumigation Site involved in the fumigation, including the certified applicator and persons under his/her supervision. Fumigation handlers must be trained and equipped to use PPE according to label requirements. Does not include persons who do not enter the treatment area, treatment buffer zone, aeration buffer zone, or secondary aeration location.

- <u>Mechanical Aeration</u>: The use of fans or any other mechanical devices to aerate or ventilate the treatment area. May also be referred to as "Active Aeration."
- Owner: Any person or company who has a present possessory interest (including leasehold, rental, or other) in the commodity or space being fumigated.
- <u>Passive Aeration</u>: Non-mechanical ventilation (i.e. opening doors, windows or removing tarpaulin cover) of the treatment area.
- <u>Release</u>: When control and responsibility for the commodity or structure is passed to the owner of the commodity or structure, responsible site manager, or other person designated by the owner.
- Remote Monitoring: Monitoring conducted remotely is performed using a system set up in a treatment area or structure prior to the introduction of methyl bromide which allows the fumigation handler to check concentrations from outside the treatment area and without opening the treatment area. Inserting a handheld device into the treatment area through a port or seam is not considered remote monitoring.
- <u>Secondary Aeration Location</u>: A separate area where commodities may be moved for the continuation of aeration under the *Moving Commodity before Aeration Period is Complete* section of this label. The secondary aeration location must allow the free flow of air through the area and must not hold or contain concentrations of methyl bromide. The perimeter of the secondary aeration location extends 24-inches from the outermost treated commodity, or carton, pallet, or box containing the treated commodity. The secondary aeration location and associated restrictions terminate upon the end of the aeration period. Secondary aeration locations may include outdoor covered areas, car ports, and areas surrounded by mesh barriers.
- <u>Start of the Fumigation</u>: The point in time at which methyl bromide is first introduced/delivered/dispensed into the air of the treatment area.
- <u>Treatment Area</u>: the structure, area or space which is, or was, enclosed or sealed to contain methyl bromide during the fumigation and continuing until the commodity or structure is moved or released.
- Treatment Buffer Zone: an area surrounding a treatment area during the treatment period (exposure or holding period) where access is limited. The treatment buffer zone extends from the perimeter of the treatment area to a distance determined by this label. Entry by any person except the certified applicator and authorized fumigation handlers under his/her direct supervision is prohibited except as provided in the Exceptions to Buffer Zone Entry Restrictions section of the label. The treatment buffer zone begins when the fumigant is introduced into the fumigation enclosure and ends when aeration begins.

#### RESPIRATOR REQUIREMENTS & WORK TIME RESTRICTIONS

Overview of required respiratory protection once methyl bromide has been introduced into the treatment area until the end of the aeration period:

Sites	When	Methyl Bromide	Required Respiratory Protection
		Concentration	
Treatment Area, Secondary Aeration Location,	<ul> <li>During Treatment Period (Treatment Area only)</li> <li>Installing portable exhaust systems</li> <li>Opening tarps for aeration</li> </ul>	Any or unknown.	Supplied Air or SCBA respirator
Treatment Buffer Zone,	• During Treatment Period (all areas except Treatment	> 5.0 ppm or unknown	Supplied Air or SCBA respirator
and Aeration	Area)	≤ 5.0 ppm	APR along with air monitoring,

Buffer Zone	<ul><li>During Aeration Period</li><li>Removing tarps</li></ul>		OR • No respiratory protection required if following the Work Time Restrictions
	<ul> <li>Commodity Released</li> </ul>	n/a	No respiratory protection required.

#### **Respirator Requirements:**

Once methyl bromide has been introduced into the treatment area, fumigation handlers entering the treatment area, a buffer zone, or secondary aeration location must wear either a supplied air respirator (NIOSH approval number prefix TC-19C) or a self-contained breathing apparatus (SCBA) (NIOSH approval number prefix TC-13F) when:

- the concentration of methyl bromide is unknown,
- installing portable exhaust systems,
- opening tarps for aeration,
- removing tarps (when concentrations under the tarp are above 5 ppm or unknown).

#### Treatment Area and Secondary Aeration Location:

Any fumigation handler entering the treatment area during the <u>treatment</u> period must wear either a supplied air respirator (NIOSH approval number prefix TC-19C) or a self-contained breathing apparatus (SCBA) (NIOSH approval number prefix TC-13F).

Any fumigation handler entering the treatment area or secondary aeration location during the <u>aeration</u> period must either

- (1) wear a respirator listed in the **PPE Section** of this label, or
- (2) follow the Work Time Restrictions in this section.

#### Treatment Buffer Zones and Aeration Buffer Zones:

Fumigation handlers entering a treatment buffer zone or aeration buffer zone must either

- (1 wear a respirator listed in the PPE Section of this label, or
- (2) follow the Work Time Restrictions in this section.

#### Respiratory Protection when Monitoring Air Concentrations:

If methyl bromide concentrations are measured to be 5.0 ppm or less, and the Work Time Restrictions are not followed, fumigation handlers may wear the following respirator instead of the supplied-air or SCBA respirator:

• a NIOSH-certified half-mask or full-face piece air-purifying respirator with a cartridge certified by the manufacturer for protection from exposure to methyl bromide at concentrations up to 5.0 ppm (e.g., a 3M air-purifying respirator equipped with 3M Model 60928 Organic Vapor/Acid Gas/P100 cartridges).

When an air-purifying respirator is worn, the following air monitoring procedures must be followed to ensure that the 5.0 ppm upper protection limit of the air-purifying respirator plus respirator cartridge is not exceeded:

 Air monitoring samples for methyl bromide must be collected at least every hour in the fumigation handler's breathing zone. See the 'Monitoring Locations' section of this label for directions on where samples must be measured.

If any air sample is greater than 5.0 ppm for methyl bromide:

- All fumigation handlers wearing air-purifying respirators must either:
  - o be removed from the treatment buffer zone and/or aeration buffer zone, or
  - o put on a supplied-air respirator (NIOSH approval number prefix TC-19C), or a self-contained breathing apparatus (SCBA) (NIOSH approval number prefix TC-13F).
- Fumigation handlers can resume work activities with an air-purifying respirator if all of the following conditions exist:

O Two consecutive air samples for methyl bromide taken at the work site at least 15 minutes apart must be less than or equal to 5.0 ppm, and

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o New cartridges have been installed.

During the collection of air samples after an air sample has measured greater than 5.0 ppm, a supplied-air respirator or an SCBA must be worn by the fumigation handler taking air samples or testing must be done remotely. New samples must be taken where the previous samples exceeded 5.0 ppm.

#### **Work Time Restrictions:**

#### Initial Test

The concentration of methyl bromide must be measured with an Initial Test using either:

- a continuous real-time detection device (such as an IST sensor, PureAire monitoring system, or MiniRAE monitor) with a sensitivity at least 0.5 ppm for methyl bromide. Fumigation handlers using a continuous real-time detection device do not have to wear a respirator unless or until a measurement of 1.0 ppm or greater is obtained. The type of monitoring device must be recorded. Measurements, the date, time, and location of the measurement must be recorded at least every 15 minutes.
- a direct reading detection device, such as a Matheson-Kitagawa, Draeger, or Sensidyne device, or a suitable electronic device, capable of accurately measuring methyl bromide levels with a sensitivity of at least 0.5 ppm for methyl bromide. Persons using direct read detection devices must follow manufacturer's directions. Fumigation handlers taking the Initial Test must wear either a supplied-air respirator (NIOSH approval number prefix TC-19C), or a self-contained breathing apparatus (SCBA) (NIOSH approval number prefix TC-13F).

The Initial Test must be performed as required in the 'Monitoring Locations' instructions below. The Initial Test may be repeated prior to the subsequent entry of fumigation handlers using the Work Time Restrictions. Fumigation handlers must follow the Work Time Restrictions triggered by the monitoring at the time they enter the area.

If at any time air concentrations exceed 5.0 ppm, then fumigation handlers must either wear an SCBA or supplied air respirator or move outside the buffer zone area.

The type of monitoring device and the measurements taken must be recorded.

The results of the Initial Test are used to determine the Maximum Entry Time, the length of time work is allowed without respiratory protection within (1) the treatment buffer zone; (2) the aeration buffer zone; (3) the treatment area during aeration; and (4) secondary aeration location. This does not include time spent outside these areas.

Additional monitoring is required during the Work Time Restriction period according to schedules set forth in the Work Time Restrictions table until work has ceased or the Work Time Restriction period has expired, whichever occurs sooner. If any subsequent tests indicate a higher concentration, the Work Time Restrictions for the higher concentration must be followed. If any subsequent tests are lower, the Work Time Restrictions for the higher concentration remain in effect.

#### **Monitoring Locations:**

- Air monitoring must be performed within the fumigation handler's breathing zone where work functions will be performed. The monitoring location(s) must be recorded in the FMP.
- Breathing zones are defined as areas where individuals typically stand, sit or lie down while performing work functions.

#### Work Time Restriction Air Monitoring Schedule:

- Use the following work time and air monitoring schedule for each 24 hour period.
- If more than the Maximum Entry Time has elapsed since the last test, an SCBA or supplied air respirator must be worn during testing or testing must be done remotely.

• For fumigation handlers who may be involved in multiple methyl bromide fumigations within a continuous 24 hour period, the maximum entry time is cumulative across all methyl bromide fumigations within that continuous 24 hour period.

(DOA: 05292018)

	Table 1 Words Time Destable	
	Table 1. Work Time Restrictions	Maximum Entry Time per
		continuous 24 hours
		(time allowed without respiratory
		protection inside the Treatment
		Buffer Zone, Aeration Buffer
Levels Allowed		Zone, Treatment Area During Aeration, and Secondary
Per Test	Air Manitoring Dogwinad	Aeration Location)
	Air Monitoring Required	
>3.0 to 5.0 ppm	Initial Test requires taking 2 samples at least 15 minutes	90 Minutes (1 Hour and 30
	apart. Both sampling results must be less than the 'Maximum Level Allowed Per Test'.	Minutes)
	Take additional sample once every 30 minutes after	
	entry until work ends, the aeration period ends, or the	
	Maximum Entry Time expires, whichever is sooner.	
>2.0 to 3.0 ppm	Initial Test requires taking 2 samples at least 15 minutes	160 Minutes (2 Hours and 40
	apart. Both sampling results must be less than the	Minutes)
	'Maximum Level Allowed Per Test'.	,
	Take additional sample once per hour after entry until	
	work ends, the aeration period ends, or the Maximum	
	Entry Time expires, whichever is sooner.	
>1.0 to 2.0 ppm	Initial Test requires taking 2 samples at least 15 minutes	240 Minutes (4 Hours)
	apart. Both sampling results must be less than the	
	'Maximum Level Allowed Per Test'.	
	Take additional sample once every two hours after entry	
	until work ends, the aeration period ends, or the	
> 0 to 1 0 nnm	Maximum Entry Time expires, whichever is sooner.	490 Minutes (9 Hours)
> 0 to 1.0 ppm	Initial Test requires taking 2 samples at least 15 minutes apart. Both sampling results must be less than the	480 Minutes (8 Hours)
	'Maximum Level Allowed Per Test'.	
	Take additional sample once every two hours after entry	
	until work ends, the aeration period ends, or the	
	Maximum Entry Time expires, whichever is sooner.	
No Detectable	Initial Test requires taking 2 samples at least 15 minutes	No Limit
Amount	apart. Both sampling results must be less than the	
	'Maximum Level Allowed Per Test'.	
	Take additional sample once every two hours after entry	
	until work ends, or the aeration period ends, whichever	
	is sooner. After entry, testing may be discontinued after	
	two consecutive No Detectable Amount results.	

#### **BUFFER ZONES**

The appropriate treatment buffer zone and aeration buffer zone must be determined using the EPA's Methyl Bromide Commodity Fumigation Buffer Zone Lookup Tables located at **epa.gov/pesticide-registration/mbcommoditybuffer**. The appropriate treatment buffer zone and the aeration buffer zone distances must be used and must be included in the site-specific fumigation management plan.

#### • Minimum Buffer Zones:

o The minimum treatment or aeration buffer zone is 10 feet.

#### • Buffers and Buildings:

o If the treatment area is contained within a closed building (exterior windows, doors, ventilation intakes, and other openings are closed), the entire building must follow all buffer zone restrictions, even if the calculated treatment buffer zone distance would not encompass the entire building.

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- o If the treatment area is within an opened building (all exterior windows, doors, and other openings are open), then only the area within the buffer zone must follow the buffer zone restrictions.
- The treatment and aeration buffer zones extend into nearby buildings unless all openings (exterior windows, doors, ventilation intakes, and other openings) inside the buffer zone are closed or sealed.

#### • Buffer Zone Overlap:

- o If treatment or aeration buffer zones overlap from more than one methyl bromide fumigation, then to determine the treatment and aeration buffer zone the certified applicator must:
  - calculate the total volume fumigated for all the sites.
  - select the highest application rate from the multiple fumigations,
  - select the lowest percent retained from the multiple enclosures, and
  - select the longest air exchange interval.
- o Using those inputs, look up the buffer zone size. This buffer zone distance must be used for both the treatment and aeration buffer zones for each site.

#### **BUFFER ZONE ENTRY RESTRICTIONS**

Entry by any person, except the certified applicator supervising the fumigation, or persons under his/her direct supervision, is prohibited in the treatment buffer zone and in the aeration buffer zone. Authorized persons who enter the treatment or aeration buffer zones must follow the personal protective equipment requirements specified for fumigation handlers on this labeling.

If a structure within the treatment buffer zone or the aeration buffer zone is not occupied, ensure that persons do not enter the structure until the aeration buffer zone is terminated. For structures that have been vacated, persons may not re-enter until one air sample for methyl bromide, taken in the breathing zone on each floor of the structure after the termination of the aeration buffer zone indicates 1.0 ppm or less methyl bromide. The sampling requirement does not apply to unoccupied buildings used for storage (e.g. sheds, barns, garages).

Local, state, or federal officials performing inspection, sampling, or other similar official duties related to the fumigation are not excluded from the treatment area, treatment buffer zone, or aeration buffer zone by this labeling. The certified applicator supervising the application and the owner of the establishment where the application is taking place are not authorized to, or responsible for, excluding those officials from the treatment area, treatment buffer zone, or aeration buffer zone.

**Exceptions to Buffer Zone Entry Restrictions:** Two exceptions are permitted to enter the treatment buffer zones and aeration buffer zones

- Occupied Structure Exception: Occupants of a structure that is within the treatment and/or aeration buffer zone may remain in the structure, *provided* continuous real-time monitoring indicates that methyl bromide concentrations are 1.0 ppm or less within the occupied structure. Fumigation handlers must monitor the air concentrations. This exception only applies to structures occupied by occupational workers. It does not apply to homes, apartment buildings, schools, hospitals, nursing homes, employee housing centers, or other prohibited sites. To use this exception, the FMP must state the distance of the occupied structure to the treatment area, the method of conducting the real time monitoring for methyl bromide during the period when the treatment buffer zone and aeration buffer zone are in force, and specific procedures for immediate intervention, such as cessation of aeration, evacuation of building, or other procedures if the concentration of methyl bromide exceeds 1.0 ppm at any time.
- Transit Exception: Limited transit through treatment and aeration buffer zones is allowed if brief and

unavoidable. Routine or repeated work-related tasks are prohibited in the buffer zones. No person is allowed to transit through a buffer zone for more than 30 cumulative minutes in a 24-hour period. To use this exception, the FMP must state the distance from the treatment area to areas where transit is anticipated, the estimated length of time persons in transit will be in the buffer zone, and the rationale why transit through the buffer zone will not exceed 30 minutes. No transit exception when horizontal exhaust stacks are used.

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#### PLACARDING TREATMENT AREAS

The certified applicator in charge of the fumigation (or someone under his/her supervision) must placard all entrances to the treatment area with signs bearing:

- skull and crossbones symbol
- "DANGER/PELIGRO,"
- "Area under fumigation, DO NOT ENTER/NO ENTRE,"
- "Methyl Bromide Fumigant in use,"
- the date and time of fumigation, and
- name, address, and telephone number of the certified applicator in charge of the fumigation.

Do not enter or allow entry by anyone other than fumigation handlers into the treatment area until the signs are removed. Such signs must only be removed when aeration has occurred and when the air concentration level of methyl bromide is monitored as described in this labeling and indicates that handlers can enter without respiratory protection. Signs must remain legible during entire posting period.

The warning signs at entrances to fumigated structures may only be removed by the certified applicator in charge of the fumigation (or someone under his/her supervision).

#### **AERATION PERIOD**

The aeration period starts at the end of the treatment period and continues until:

- The concentration of methyl bromide is measured to be 5.0 ppm or less AND
- The minimum time specified below has elapsed:
  - o 4 hours, if using mechanical aeration; OR
  - o 12 hours, if using passive aeration.
  - o Exceptions to the Minimum Time Requirement:
    - For vacuum chambers at least 4 Air Washes must be done before the commodity can be moved from the chamber. An Air Wash is an alternating cycle of pressurizing and depressurizing a vacuum chamber to achieve aeration. Vacuum chambers accelerate the rate of desorption of the methyl bromide.
      - If this exception is used, the FMP must explain the designation of the vacuum chamber and the number of air exchanges per hour
    - For applications supervised by USDA/APHIS officials or an agent designated by USDA/APHIS, the aeration time specified in the most current version of the USDA APHIS PPQ Treatment Manual may be followed.

#### **Taking Concentration Measurements:**

- For measurements intended to release or move a commodity, stop fans.
- Take concentration measurements in the air space around the treated commodity and, when feasible, inside cartons or boxes.
- For structural fumigations, take concentration measurements in the breathing zone of the area of the structure to be released.

#### **Moving Commodity before Aeration Period is Complete:**

• For commodities treated at normal atmospheric pressure, fumigated commodities may be moved from the treatment area to continue aeration in a Secondary Aeration Location provided:

o the concentration of methyl bromide is measured to be 5 ppm or less as specified in the *Taking Concentration Measurement* section of this label,

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- o at least ten air exchanges have been completed in the treatment area; and
- o during removal of commodity from fumigation chambers, all aeration fans must continue to run while handlers enter and exit the chamber to remove the commodity.
- The Treatment Area PPE, Respirator Requirements & Work Time Restrictions, and monitoring requirements apply to the secondary aeration location to which the fumigated commodity is moved, beginning at the time it is moved and ending at the termination of the aeration period.
- If a combination of aeration techniques is used, the minimum aeration time may be prorated to reflect the techniques used. For example, if two hours of mechanical aeration occur in the treatment area before the commodity is moved to a storage area, then that constitutes one-half of the required minimum aeration time (2 hours out of 4 hours for mechanical aeration). If the separate area uses passive ventilation, then the separate area would have to be passively ventilated for at least 6 hours (one half of the 12 hours for passive ventilation) before handlers would be permitted to handle the treated commodity.
- Commodities aerated using a combination of aeration techniques may be released when the concentration of methyl bromide in the air space around the commodity is measured to be 5.0 ppm or less and the prorated minimum aeration time has been completed.
- Record the location and time when the commodity was moved and method for achieving 10 air exchanges in the pesticide application record.

#### **Releasing Fumigated Commodities and Structures:**

- After the aeration period is completed by one of the aeration methods above, the commodity or structure may be released.
- After the commodity or structure is released, record the date and time of the release in pesticide application records.
- Record the concentration reading date, time, and concentration measured, in pesticide application records.

#### EMERGENCY PREPAREDNESS MEASURES

For each residence or business within 50 feet of the treatment or aeration buffer zones, the certified applicator must follow the directions below for either

Option 1 – Fumigant Site Monitoring, or

Option 2 – Information for Neighbors.

- Option 1 Fumigant Site Monitoring: NOTE: Fumigant Site Monitoring is required ONLY if directions in the Response Information for Neighbors section below are not followed.
  - o From the start of the application until the aeration buffer zone period expires, a certified applicator or fumigation handler(s) under his/her supervision must:
    - Monitor for methyl bromide with a direct read device in areas between the buffer zone perimeter and residences and businesses that trigger this requirement.
    - Monitoring must begin within 1 hour of the start of the application and continue until the buffer zone period expires with a minimum of 2 air samples taken at least 1 hour apart every 6 hours during the buffer zone periods.
  - o If this option is selected:
    - The FMP must include the certified applicator's plans for where, when, and how monitoring will be performed.
    - Air sampling results must be recorded.
    - Implement the emergency response plan immediately if an air sample is greater than or equal to 1.0 ppm for methyl bromide.
- Option 2 Information for Neighbors: NOTE: Information for Neighbors is required ONLY if directions in the Fumigant Site Monitoring section above are not followed.
  - O The certified applicator supervising the application must ensure that residences and businesses that trigger the requirement have been provided the following information at least 1 week before

the first fumigation begins and must be repeated annually or within 30 days of a change in the FMP, whichever occurs first.

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- That methyl bromide fumigation(s) will take place
- The location(s) of the treatment area (s)
- Name of the product(s) to be used and the EPA Registration number(s)
- Contact information for the certified applicator(s) supervising the fumigation(s)
- Time period(s) when the application(s) is/are planned to take place (must not exceed 1 year from the date the information is provided)
- Signs and symptoms of exposure to methyl bromide. See "Note to Physician" section of this label.
- What to do and who to call if you believe you are being exposed (911 in most cases).
- The Response Information for Neighbors may be provided through mailings, door hangers, or other methods that effectively communicate the information above to the residents and/or business owners/operators.

#### SITE-SPECIFIC FUMIGATION MANAGEMENT PLAN (FMP)

- Prior to fumigating, the certified applicator supervising the fumigation must verify that a site-specific fumigation management plan (FMP) exists. The FMP is intended to ensure a safe and effective fumigation. The certified applicator in charge of the fumigation is responsible for working with the owners and/or responsible employees of the site to be fumigated to develop a site-specific FMP. The certified applicator supervising the fumigation must ensure that the FMP is up-to-date and applicable to the fumigation before it takes place.
- Before the start of any fumigation, the certified applicator supervising the fumigation must verify in writing (sign and date) that the FMP reflects current site conditions and that it addresses all elements identified in this labeling.
- For situations where an initial FMP is developed and certain elements do not change for the fumigation, only elements that have changed need to be updated in the site-specific FMP provided that the certified applicator supervising the application has verified that those elements are current and applicable to the fumigation site before the fumigation begins, and record-keeping requirements are followed for the entire FMP (including elements that do not change).
- The FMP must document the characteristics of the site, the treatment and aeration area buffer zones and appropriate monitoring and notification requirements consistent with, but not limited to, the following:
  - The Certified Applicator, or a person under his/her supervision, must inspect the site to determine its suitability for fumigation.
  - Before fumigating a structure, the Certified Applicator, or a person under his/her supervision, must consult available previous records for any changes to the structure, potential leaks and monitoring of adjacent, occupied buildings.
  - o The Certified Applicator, or a person under his/her supervision, prior to each fumigation must review any available existing FMPs, MSDS, methyl bromide label and other relevant safety procedures for the specific location or site, and consult with owners (whose structure or commodity is fumigated) and appropriate employees, if available.
  - o The Certified Applicator, or a person under his/her supervision, must develop procedures and appropriate safety measures for nearby handlers and public personnel who will be in and around the area during fumigation and aeration and consult owners, if available.
  - o The Certified Applicator, or a person under his/her supervision, must develop an appropriate exterior monitoring plan that will conform with the requirements of the treatment and aeration area buffer zones to ensure that nearby handlers and bystanders are not exposed to levels above the allowed limits during fumigation and aeration and consult with owners, if available.
  - The Certified Applicator, or a person under his/her supervision, must develop procedures for notification of local emergency responders in the event of an emergency (Emergency Response Plan) and consult with owners, if available.
  - The Certified Applicator, or a person under his/her supervision, must confirm the placement of warning placards around the fumigation site as described on the label.

o The Certified Applicator, or a person under his/her supervision, must confirm the required safety and monitoring / clearance equipment (including that required for entry into an area under fumigation) is in place and the necessary, trained fumigation handlers are available to complete a safe, effective fumigation.

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- The Certified Applicator, or a person under his/her supervision, must determine the proper Treatment Buffer Zone and Aeration Buffer Zones according to the methyl bromide product label and record the application rate, fumigated volume, and other parameters used to determine the buffer distances.
- Elements of the FMP may be fulfilled through the use of supplemental documents such as service reports, facility maps, facility emergency plans, state or federally required forms, and other supplemental documents prepared for or used during the actual fumigation.

#### RECORDKEEPING

- The certified applicator's employer or the certified applicator supervising the fumigation must maintain all records required under the provisions of this label including the FMP and supplemental documents used to fulfill FMP requirements, information on incidents and complaints, and all air monitoring results for two years from the date of the fumigation. During the two-year period following a fumigation, these records must be made available upon request to any local, state, tribal, or federal pesticide enforcement personnel.
- During the treatment and aeration buffer zone periods, the certified applicator must make a copy of the FMP and the associated Material Safety Data Sheets (MSDS) available for viewing by all fumigation handlers. The certified applicator must ensure the FMP is available upon request at the fumigation site while the buffer zones are in effect.
- Records of air monitoring results must include:
  - o Date of fumigation,
  - o Monitoring equipment used,
  - o Location and time of each required sample, and
  - o Concentration of methyl bromide found for each required sample.
- Records of spills, equipment failures and other emergencies must include:
  - o Description of what happened
  - o Emergency procedures followed
  - o Whether the incident was reported to the state lead agency or other agency.
- Records of complaints related to the fumigation received by the applicator during or after the fumigation must include:
  - o Contact information for the person filing the complaint
  - o Description of control measures or emergency procedures followed after the complaint, if any.

Table 2. Stored Raw Agricultural Commodities (Not Processed Food)					
Commodity	Pests Controlled	Dosage (lbs/1000ft <sup>3</sup> )	Exposure Time (hrs)	Tolerance (ppm)	Remarks
Almonds	G C 1G 1 1	1.5-3.5	16-24	200	
Almonds	Confused flour beetle,	2.5-3.5	2-5	200	Vacuum chamber
Brazil Nuts	saw toothed grain beetle, dermestids, indian meal	1.5-3.5	16-24	200	
Diazii Nuts	moth, drugstore beetle,	2.5-3.5	2-5	200	Vacuum chamber
Butternuts	cigarette beetle,	1.5-3.5	16-24	200	
Dutternuts	warehouse moth, rusty	2.5-3.5	2-5	200	Vacuum chamber
Cashews	grain beetle, cadelle,	1.5-3.5	16-24	200	
Cashews	groundnut bruchid, pecan	2.5-3.5	2-5	200	Vacuum chamber
Chestnuts	weevil, almond moth, nut	4-6	4-6	<del></del>	
Chestiluts	weevil, nut fruit tortrix, tortricid moths	4	5		Vacuum chamber
Hazlenuts	torurcia monis	1.5-3.5	16-24	200	

(filberts)		2.5-3.5	2-5		Vacuum chamber
TT' 1 NI 4		1.5-3.5	16-24	200	
Hickory Nuts		2.5-3.5	2-5	200	Vacuum chamber
D		1.5-3.5	16-24	200	
Peanuts		2.5-3.5	2-5	200	Vacuum chamber
D		1.5-3.5	16-24	200	
Pecans		2.5-3.5	2-5	200	Vacuum chamber
D' . 1.		1.5-3.5	16-24	200	
Pistachios		2.5-3.5	2-5	200	Vacuum chamber
Macadamia		1.5-3.5	16-24		
Nuts				200	
(bushnut)		2.5-3.5	2-5		Vacuum chamber
Walnuts		1.5-3.5	16-24	200	
vv amats		2.5-3.5	2-5		Vacuum chamber
Apples	Oriental fruit moth,	1.5-4	2	5	
Apricots	codling moth, apple	1.5-4	2	20	
Cherries	maggot, apple curculio,	1.5-4	2	20	
Nectarines	twig borer, melon fruit	1.5-4	2	20	
Peaches	fly, Mediterranean fruit	1.5-4	2	20	
Pears	fly, Oriental fruit fly,	1.5-4	2	5	
Plums	cherry fruit fly, brown	1.5-4	2	20	
Quinces	mite, green peach aphid,	1.5-4	2	5	
Strawberries	scales, thrips	1.5-3	2	60	
Barley, grain	Coffee bean weevil, Australian spider beetle,	2-9	4-24	50	
Field corn,	saw-toothed and			50	
grain	merchant grain beetles,	2-9	2-24		
D	dried fruit beetles, Indian	1.5-9	2-3	240	Vacuum chamber
Popcorn	meal moth, confused	2-9	4-24	240	
Oats	flour beetle, warehouse moth, common grain			50	
	mite, granary weevil,	2-9	4-24		
Rice, grain	lesser grain borer, rusty	2-9	4-24	50	
Rye, grain	grain beetle, angoumois grain moth, rice weevil,	2-9	4-24	50	
Sorghum,	cadelle, drugstore beetle,				
grain	cigarette beetle, flat grain			50	
	beetle, Mediterranean	2-9	4-24		
Wheat	flour moth, red flour beetle, common bean	2-9	4-24	50	
C	weevil, copra beetle, rice			100	
Copra	moth, foreign grain	1.5-3.5	16-24	100	
Beans (dry)	beetle, almond moth,	2-9	4-24	125	
Peas (dry)	mealworms, bruchids,	2-9	4-24	125	
Faba beans	weevils, mites, khapra	3-4	4-24	125	
(dried)	beetle, seed beetle	3	5		Vacuum chamber
Asparagus	Aphids, asparagus beetle,	1.5-4	2	100	
Beans	armyworms, cabbage		4 7 6	50	
(succulent)	looper, European corn	1-3	1.5-2		
Beets (roots)	borer, pink bollworm,	2-3	2-4	30	

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Carrots (roots)   Carrots (roots)   Mediterranean fruit fly,   2-3   4   30	Cabbage	Japenese beetle, pod	2-4	2	50	
Citron   Cucumbers   Eggplant   bug, sabbugs, spider mites, cabbage maggots, pickleworm, carrot rust fly, stink bug, bean leaf beetle, Mckraen bean beetle, Diabrotica beetle, cucumber beetle, squash bug, false thinch bug & green)   Loopers, symphylans, blister beetles, onion maggot, onion thrips, maggot, Colorado potato beetle, potato psyllid, tuber morh, sweet potato beore, carwigs, darkling insects, internal feeding insects, internal feeding insects, internal feeding functions and the color of the color			2-4	2	20	
Citron   Cucumbers   Eggplant   bug, sawbugs, spider   mites, cabbage maggots, pickleworm, carrot rust fly, stink bug, bean leaf beetle, Mexican bean beetle, Diabrotica beetle, Orions (bubb. & green)   Cocoa beans   Pumpkins   P	Carrots (roots)	Mediterranean fruit fly,	2-3	4	30	
Eggplant   Honeydew   Honeydew melon aphid, pickleworm, carrot rust   Derusalem   Artichoke   Honeydew   Honeydew   Lygus bug, melon aphid, pickleworm, carrot rust   Derusalem   Artichoke   Lygus bug, melon aphid, pickleworm, carrot rust   Derusalem   Artichoke   Lygus this bug, sean leaf beetle, Mexican bean beetle, Diabrotica beetle, octor   Logorers, symphylans, blister beetles, onion maggot, onion thrips, mealybugs, pepper maggot, Colorado potato beetle, potato psyllid, tuber moth, sweet potato weevil, tuberworm, squash bug, squash vine borrer, carvigs, darkling borrer, earlygs, darkling insects internal feeding insects, internal feeding insects k (2.3   3.4   5.0   1.5   2.5   3.3   3.0   1.5   2.5   3.3   3.0   1.5   2.5   3.3   3.0   1.5   2.5   3.3   3.0   1.5   2.5   3.3   3.0   1.5   2.5   3.3   3.0   1.5   3.5   2.5   3.0   1.5   3.5		corn earworm, green stink		2-4	30	
Honeydew melon	Cucumbers	bug, sawbugs, spider	2-4	2-4	30	
Honeydew melon   Jegus bug, melon aphid, pickleworm, carrot rust fly, stink bug, bean leaf beetle, Mexican bean beetle, Subarborica beetle, Squash bug, false chinch bug, loopers, symphylans, blister beetles, onion maggot, colorado potato beetle, botato psyllid, pods)   Sweet corn maggot, colorado potato beetle, botato psyllid, pods)   Sweet corn maggot, colorado potato beetle, botato psyllid, pods)   Sweet corn maggot, colorado potato beetle, botato psyllid, pods)   Sweet corn maggot, colorado potato beetle, potato psyllid, weevil, tuberworm, sequash bug, squash vine borer, carvigs, darkling beetle, external feeding insects   Squash (summer)   Squash (summer)   Squash (suummer)   Squash (summer)   Squash (summer)   Squash (suummer)   Squash (summer)   Squash (suummer)   Squash (summer)   Squash (suummer)   Squash (summer)   Squash (	Eggplant	mites, cabbage maggots,	2-3	2-4	20	
Derusalem   Artichoke   Arti		lygus bug, melon aphid,	_			
Jerusalem   Artichoke   beetle, Mexican bean beetle, Diabrotica beetle, Mexican bean beetle, Diabrotica beetle, Mexican bean beetle, Diabrotica beetle, Squash beetle, Squash bug, false chinch bug, false chinch bug, false chinch bug, foopers, symphylans, blug foopers, saynd foopers, saynd foopers, saynd foopers, saynd foopers, saynd foopers, saynd f			2-4	2	20	
Artichole   Muskmelon   Chra   Christian					20	
Muskmelon Okra	Artichoke		2-3	4	30	
Okra					20	
Onions (bulb & green)   Parsnips (roots)						
Begreen   Boopers, symphylans, blister beetles, onion maggot, onion thrips, mealybugs, pepper maggot, Colorado potato beetle, potato psyllid, tuber moth, sweet potato weevil, tuber moth, sweet potato weevil, tuber moth, sweet potato beetle, potato psyllid, tuber moth, sweet potato weevil, coffee beans warehouse many to company the process of the p						
Parsnips (roots)	`		2-3	4	20	
Peas (with pods)   maggot, colorado potato beetle, potato psyllid, tuber moth, sweet potato weil, tuberworm, squash bug, squash vine princapple			23			
Peas (with pods)			2-3	2-4	30	
Dods   Sweet corn			23			
Sweet corn   Peppers	,		1-3	1 5-2	50	
Peppers   Pimentos	• /				50	
Primentos   Prim						
Pineapple						
Dote   Dote   Dote   Cocoa moth, cigarette beetle, confrise damed   Dote   Dote   Cocoa moth, cigarette beetle, confrise damed   Dote				_		
Politations	Тіпсарріс		2-0	2-0		Fumigation below 70°
Pumpkins   Insects	Potatoes		2.5-3	2	75	
Radishes   Rutabagas (roots & tops)   Squash (summer)   1.5-4   2   30	Pumpkins		1.5-2.5	2	20	
Cooffee beans   Cooffee bean   Cooffee beans   Cooffee bean   Coof	Radishes		2-3	2-4	30	
Squash (summer)   Squash (winter)   Squash (winter)   Squash (winter)   Squash (zucchini)   Sweet potatoes   2-4   3-4.5   75   Fumigation below 70° may result in damage   2-3   3-4   20			2.5-3	2	30	
Squash (winter)   Squash (zucchini)   Sweet potatoes   Tomatoes   Turnips (roots)		-				
Squash (winter)   Squash (zucchini)   1.5-4   2   20			1.5-4	2	30	
Coffee beans   Coffee beans   Cuschini   C						
Squash (zucchini)  Sweet potatoes Tomatoes Turnips (roots) Watermelons  Yams  Cocoa beans  Coffee beans  Squash (zucchini)  1.5-2.5  2  20  Fumigation below 70° may result in damage  2-3  3-4  20  2-3  2-4  30  Squash (zucchini)  2-3  2-4  30  Squash (zucchini)  2-4  2-9  2-9  2-9  2-9  2-9  2-9  2-9			1.5-4	2	20	
Sweet potatoes   2-4   3-4.5   75   Fumigation below 70° may result in damage   2-3   3-4   20	Squash		1 5-2 5	2	20	
Tomatoes Tomatoes Turnips (roots) Watermelons Yams  Cipollini bulbs  Cocoa beans  Coffee beans  Coffee beans  Tomatoes  Turnips (roots)  2-3 2-4 3-4.5 20  2-3 3-4 30  Funigation below 70° may result in damage  2-4 2 20  Funigation below 70° may result in damage  2-4 2-4 50 Partial vacuum (15 inches mercury)  Vacuum chamber		_	1.5 2.5			T 1 1 500
Tomatoes Turnips (roots) Watermelons  Yams  Cipollini bulbs  Cocoa beans  Cocoa beans  Coffee beans  Coffee beans  Coffee beans  Cocoa meth, cigarette beetle, confused flour beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa moth flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa meth flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa meth flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa meth flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa meth flat grain beetle, coffee bean weevil, coffee rust, indian meal moth			2-4	3-4.5	75	
Turnips (roots) Watermelons  Yams  Cipollini bulbs  Cocoa beans  Cocoa beans  Coffee beans  Coffee beans  Cotoa beans  Coffee beans  Cotoa beans  Cotoa beans  Coffee beans  Cotoa beans  C	_		2.2	2.4	20	may result in damage
Watermelons     2-3     2-4     30       Yams     2.5-4     2     20       Cipollini bulbs     Exosoma lusitanica, mites     2-4     2-4     50     Fumigation below 70° may result in damage       Cocoa beans     Cocoa moth, cigarette beetle, confused flour beetle, confused flour beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth     1.5     3     50		-	2-3	3-4	20	
Watermelons2-4220Yams2.5-43-4.575Fumigation below 70° may result in damageCipollini bulbsExosoma lusitanica, mites2-42-450Partial vacuum (15 inches mercury)Cocoa beansCocoa moth, cigarette beetle, confused flour beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth1.5350	*		2-3	2-4	30	
Yams  2.5-4  3-4.5  75  Fumigation below 70° may result in damage  Cipollini bulbs  Exosoma lusitanica, mites  Cocoa moth, cigarette beetle, confused flour  beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa moth, cigarette  beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa moth, cigarette  1-2  16-24  50  Vacuum chamber  75		-	2-4	2	20	
Cipollini bulbs  Exosoma lusitanica, mites  Cocoa beans  Cocoa moth, cigarette beetle, confused flour beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Exosoma lusitanica, mites  2-4  2-4  2-4  50  Partial vacuum (15 inches mercury)  Vacuum chamber  75  Vacuum chamber				2.4.5		Fumigation below 70°
bulbs  Cocoa moth, cigarette beetle, confused flour beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa moth, cigarette 1-2 16-24 50 Vacuum chamber  Vacuum chamber	Yams		2.5-4	3-4.5	75	C
Cocoa beans  Cocoa moth, cigarette beetle, confused flour  beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  Cocoa moth, cigarette 1-2 16-24  Tocoa moth, cigarette beetle, confused flour  1.5 3 50  Vacuum chamber  75		Exosoma lusitanica, mites	2-4	2-4	50	`
beetle, confused flour beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth  beetle, confused flour 1.5 3 Vacuum chamber 75 75	outos	Cocoa moth cigarette	1 2	16.24		menes mercury)
Coffee beans warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian meal moth 2-3 16-24 75	Cocoa beans				50	Vacuum chamber
Garlic Brachycera spp., 2-3 1.5-4 50 Partial vacuum (15	Coffee beans	beetle, bruchids, warehouse moth, flat grain beetle, coffee bean weevil, coffee rust, indian		16-24	75	
	Garlic	Brachycera spp.,	2-3	1.5-4	50	Partial vacuum (15

	Dyspessa ulula, brown wheat mite, onion maggot, onion thrips				inches mercury)
Horseradish (roots)	Baris lepidi	2-3	2	30	Partial vacuum (15 inches mercury)
Salsify roots	Armyworms, flea beetle, leafhoppers, stink bugs, tarnished plant bug	2-3	2-3	30	
Grapefruit	Anastrepha spp., Proeulia	2-3	2	30	
Grapes	spp., Leptoglossus spp.,	1.5-4	2-4	20	
Kumquat	Megalometis spp.,	2-3	2	30	
Lemons	Naupactus spp.,	1.5-3	2	30	
Lime	Listroderes spp.,	2-3	2	30	
Oranges	Conoderus spp.,	2-3	2	30	
Tangelos	Bravipalpus spp., aphids,	2-3	2	30	
Tangerines	citrus scale, citrus mite, leaf rollers, white flies, thrips, California orange dog, mealybugs, tortricid moths, vine moths, spiders, ants	2-3	2	30	

	Table 3. Processed Food					
Commodity	Pests Controlled	Dosage (lbs/1000ft <sup>3</sup> )	Exposure Time (hrs)	Tolerance (ppm)	Remarks:	
Dried Fruits	Saw-toothed grain beetle,	1-2	16-24	125		
Dried Figs	merchant grain beetle, dried fruit beetle, Indian meal moth, confused flour beetle, spider beetles, cigarette beetle, warehouse moth, carob moth, raisin moth, mites, fruit flies	1-2	16-24	250		
Cheese (parmesan & roquefort only)	Cheese mite, cheese skipper, cheese maggot	1-2	16-24	325		
Dried Eggs	Larder beetles, mites	1-2	16-24	400		
Processed Food (including cured meat)	Saw-toothed beetle, flat grain beetle, flour beetle, cigarette beetle, Indian meal moth, psocids, rusty	1-2	12-48	125		
Processed Grains	grain beetle, drugstore beetle, spider beetle, Mediterranean flour moth,	1-2	12-48	125		
Processed herbs & spices	mealworms, warehouse beetle, warehouse moth, foreign grain beetle, khapra beetle, mites,	2-3	16-24	400		

Animal feed from barley, corn, grain sorghum, oat, rice, rye and wheat	cheese skipper, larder beetle, red legged ham beetle	1-2	12-24	125	
Dog food		1-2	12-24	400	

Table 4. Structures or Vehicles Associated with Raw or Processed Commodities					
Commodity	Pests Controlled	Dosage (lbs/1000ft <sup>3</sup> )	Exposure Time (hrs)	Tolerance (ppm)	Remarks
Warehouse, shipboard, railroad car, truck, air and sea containers, grain elevator, poultry houses, food processing plant, feed room, grain	Cockroaches, confused flour beetle, rice weevil, granary weevil, sawtoothed grain beetle, rusty grain beetle, lesser grain borer, cadelle, khapra beetle, drugstore beetle, larder beetle, carpet beetle, copra beetle, coffee bean weevil, groundnut bruchid, common bean weevil, dried fruit beetle, golden spider beetle, cigarette beetle, angouois grain moth, Mediterranean flour moth, warehouse moth, Indian meal moth, common grain mite, snails	1-9	10-72		
bins	Exposed rats and mice	0.25-0.4	8-16		
		1-9	10-72		
	Duayya tuga analras (P-i	3-4 1.5-9	24-33 10-72		
	Brown tree snakes ( <i>Boiga</i> irregularis)	3-4	24-33		
	Fungi	3-4	24-36		

Table 5. Non-Food Products					
Commodity	Pests Controlled	Dosage (lbs/1000ft <sup>3</sup> )	Exposure Time (hrs)	Tolerance (ppm)	Remarks:
Baled Tobacco	Daysastana haatlas	2-3	48-72		
Daled Tobacco	Drugstore beetles, cigarette beetles, tobacco	4	4		Vacuum chamber
Processed	beetle, tobacco moth	2-3	16-24		
Tobacco		4	4		Vacuum chamber
Plants, Bulbs, Corms, Tubers, Rhizomes and Roots	Mealybugs, scale insects, aphids, <i>Coleoptera</i> , Japanese beetle, <i>Hemiptera</i> , thrips, ants, <i>Homoptera</i> , <i>Lepidoptera</i> , mites	1-4.5	1-4.5		
Christmas Trees	Gypsy moth, pine shoot borer, <i>Homoptera</i> ,	1.5-5	2.5-4.5		

	-			1
	Hymenoptera,			
	Coleoptera, Lepidoptera,			
	insects			
	Scolytus spp.,			
	Callosobruchus spp.,			
Propagative	Cryptophlebia illepida,			
Seeds	Helicella spp.,	1-4	2-24	
Seeds				
	Coleoptera, Lepidoptera,			
36.41	mites			
Machinery,	Wood-boring insects,			
packing &	Coleoptera, mites,			
bagging	spiders, snails,			
material, misc.	cockroaches,	2-15	24-72	
non-food cargo	Lepidoptera,			
(e.g. ceramic,	Hymenoptera, khapra			
marble,	beetle			
brassware,				
handicrafts,	Brown tree snakes			
burlap,	(Boiga irregularis)	2-15	24-72	
appliances)	(Botga trregularis)			
Soil and soil-	Nematodes, weed seeds,			
contaminated	insects, spiders,	4-20	8-24	
miscellaneous	msects, spiders,			
non-food cargo				
(e.g. farm and				
military				
equipment,	Brown tree snakes	4-20	8-24	
machinery,	(Boiga irregularis)	. 20	0 <b>2</b> .	
construction				
equipment				
bagging				
material, roots)		<u> </u>		
Vehicles and	Gypsy moths,	1545	2516	
outdoor	cockroaches	1.5-4.5	2.5-16	
equipment,				
furnishings,	Exposed rodents	1.5-4.5	4-16	
and materials	1		. 10	
Logs and	Oak wilt and other			
lumber	timber pathogens	12-15	48-72	
Forest & plant	Pinewood nematode,			
products (e.g.	wood-borers, bark			
lumber,	beetles, termites,			
•				
firewood,	carpenter ants, horntails,			
driftwood,	old house borer, powder			
pallets, crates,	post beetles,	3-9	16-24	
paper,	Hymenoptera,		1021	
cardboard,	Coleoptera, woodworm,			
carvings,	wharf borer, wood			
grapevine	wasps, mites,			
wreaths, dried	<i>Lepidoptera</i> , khapra			
plants, Spanish	beetle,			
moss, bamboo,	Brown tree snakes	2.0	16.24	
wicker, and	(Boiga irregularis)	3-9	16-24	
,				l .

mulch)				
Beehives and beekeeping equipment, bee boards	Greater wax moth, mites, insects, diseased and feral bees	1.5-2	16-24	

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Persons moving, handling, or opening fumigant containers must wear the personal protective equipment (including prescribed respirators when necessary) specified in the *Personal Protective Equipment* section of this labeling. 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, 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. 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 of Cylinders: Cylinders are the property of the manufacturer or distributor where purchased and must be returned promptly by collect freight. Do not ship cylinders without safety caps or valve protection bonnets. When a cylinder is partially full and there is no further requirement for the product, contact the manufacturer or distributor for return instructions. Do not refill containers or use them for any other product or purpose.

**Spill and Leak Procedures:** In case of a rupture of a hose or fitting while applying fumigant, immediately stop the fumigation. Evacuate everyone from the immediate area of spill or leak. Only applicators or other fumigation handlers, or emergency responders, are permitted to perform corrective action and cleanup. Use personal protective equipment specified in the Personal Protective Equipment (PPE) section of this labeling 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 1.0 ppm. For concentrations of methyl bromide over 1.0 ppm, see the Respirator Requirements and Work Time Restrictions section of this label for additional directions.

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.

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

Warranty: Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, expressed or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.

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#### **Produced For:**

ICL-IP America, Inc. 11636 Huntington Road Gallipolis Ferry, WV 25515 Telephone: 1-877-661-4272

EPA Reg. No. 8622-55 EPA Est. No. 11220-CA-8

[Label No	]	
NET CONTENTS:	lbs /	kgs
[Batch][Lot] No.		