**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:**

**DANGER**

EXTREMELY HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE. INHALATION MAY BE FATAL OR CAUSE SERIOUS ACUTE ILLNESS OR DEATH. DO NOT INHALE VAPOR OR CONTACT SKIN OR EYE INJURY WHICH MAY HAVE A DELAYED ONSET. DO NOT ALLOW LIQUID, SKIN, IN EYES, OR ON CLOTHING. METHYL BROMIDE IS ODORLESS AND NON-IRRITATING TO SKIN AND EYES DURING EXPOSURE. EXPOSURE TO TOXIC LEVELS MAY OCCUR WITHOUT WARNING OR DETECTION BY THE USER.

**AIR CONCENTRATION LEVEL**

The acceptable air concentration level for persons exposed to methyl bromide is 5 ppm (20 mg/m³). The air concentration level is measured by a direct reading detection equipment, such as a Digilog detector.

**PERSONAL PROTECTIVE EQUIPMENT**

**Applications and other handlers must wear:**

- Full-face shield or safety glasses with brow and temple shields when handling liquid product.
- Do not wear jewelry, gloves, goggles, tight clothing, rubber protective clothing, or rubber boots when handling. Methyl bromide is heavier than air and can be trapped inside clothing.
- When the air concentration level of methyl bromide is above 5 ppm and a respirator is required, protect the eyes by wearing a full-face respirator.
- No respirator is required. If the air concentration level of methyl bromide in the working area is measured to be 5 ppm or less.
- A respirator is required if the air concentration level of 5 ppm for methyl bromide is exceeded at any time. The respirator must be one of the following types:
  - a supplied-air respirator (MSHA/NIOSH, approved negative pressure type) OR 830-K or 830-L self-contained breathing apparatus (SCBA) (MSHA/NIOSH approved negative pressure type 3-FC).

**WORK SAFETY REQUIREMENTS**

- Do not wear jewelry, gloves, goggles, rubber protective clothing, or rubber boots when handling. Methyl bromide is heavier than air and can be trapped inside clothing.
- If liquid fumigant splashes or spills on clothing, remove them at once, as fumes will be an instantaneous source of irritation.
- Immediately after contamination, remove outer clothing, shoes and socks, and do not reuse until thoroughly washed or sanitized. Wash such clothing and shoes outdoors until thoroughly washed. Then follow the PPE manufacturer’s instructions for cleaning/maintaining PPE.
- Exposure time is based on both equipment and operator protection.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with methyl bromide.
- Follow PPE manufacturer’s instructions for cleaning/maintaining protective eyewear and respiratory devices.
- Keep such clothing and shoes outdoors until thoroughly aerated or ventilated. Keep such clothing and shoes outdoors.

**USER SAFETY RECOMMENDATIONS**

**Use of other PPE:**

- If exposed to methyl bromide, take the following steps:
  - Remove clothing immediately if possible.
  - If clothing has not been contaminated, wash thoroughly and put on clean clothing.
  - Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and clean into clean clothing.

**ENVIRONMENTAL HAZARD**

- 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 Environmental Policy Act (NEPA) statement and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems previously not notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office
- Monitor area immediately surrounding the fumigation site with a direct reading detection device.
- During exposure and post-exposure to establish that levels of the methyl bromide are not present. The high volatility of the fumigant permits it to be released from its source and dissipate rapidly with no hazard to surrounding areas with correct monitoring.

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**RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY**

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

**Methyl Bromide 100 COMMODITY FUMIGANT**

**ACTIVE INGREDIENT:** Methyl Bromide 100%

**TOTAL:** 100%

This product weighs 13.99 lbs. at 6% F.

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**CHEMICAL HAZARD**

- Methyl bromide is practically nonflammable. There is no danger from fire or explosion in usual handling or use. However, methyl bromide has the potential to cause corrosive damage to items in the space being fumigated. Pilots lights and glowing wire heaters can be used in the space.
- Do not apply dry gas directly to metal surfaces because of possible corrosive effect on certain materials. The following materials can develop an undesirable odor when contaminated in fumigated areas and should be removed from the space being fumigated:
  - Wood: (unprotected wood);
  - Full-all screw-
  - Any kind of materials that contain naphthalene or untreated wood products, acrylonitrile butadiene styrene, and some salt blocks used for cattle licks.
- Do not use on: a) (glove rubber, as in nitrile gloves, pinafores, and cushions, and rubber; b) Stamped aluminum and similar kinds of replacement.
- Charcoal (carbon) and charcoal materials (charcoal absorbs the methyl bromide, reducing the effective concentration and contaminating the charcoal). If there is a question whether a material may contain an odor, a test fumigation may be run with a small quantity of the material.

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**PRECAUTIONS FOR COMMODITY USE GENERAL PRECAUTIONS**

- When used for fumigation of enclosed spaces (such as warehouses, vaults, trucks, vans, etc.), the operator should change vehicles, and portable fume cabinets (including areas) two persons trained in the use of this product must be present during introduction of the fumigant. If there are limitations on personnel entering the treated area, the personnel do not need to be present if monitoring is conducted remotely (outside the area being fumigated).
- Do not fumigate with this product when the temperature is below 40°F. Whenever possible, apply methyl bromide from outside of structure or car being fumigated. Methyl bromide may cause condensation on the skin, during and after fumigation, and for a period of time following completion of the treatment.

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**REVIEW THE FOLLOWING OBSERVATIONS GENERAL PRECAUTIONS**

- 1. Do not get in eyes or on skin.
- 2. Do not spill or discard contents outside of areas confined for treatment.
- 3. Store cylinders separately from fuel, explosives, and oxidizing materials.
- 4. It is advisable to supply your physician with information on Methyl Bromide. Literature on the subject is available from a number of sources.
- 5. Obtain medical assistance at once in case of illness after exposure, and do not allow individuals to become involved with fumigated areas until recovery is complete.

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**NOTE TO PHYSICIAN**

- Upon accident or exposure, give the following:

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**WARNING**

Seller warrants that this product conforms to the chemical description on its label and is reasonably fit for the purposes described; however, because this product is used in an environment under normal conditions of use. Neither this warranty nor any warranty of MERCHANTABILITY, ALIENATION OF RIGHTS, or FITNESS FOR A PARTICULAR PURPOSE is given, expressed or implied, extends to the use of this product in a manner contrary to its label.
COMMODITY FUMIGATION GENERAL FUMIGATION AND INSTRUCTIONS

THIS FUMIGANT IS A HAZARDOUS MATERIAL, AND SHOULD BE USED ONLY BY INDIVIDUALS TRAINED IN PROPER USE. BEFORE USING, READ AND FOLLOW ALL LABEL PRECAUTIONS AND DIRECTIONS. ALL PERSONS WORKING WITH THIS FUMIGANT MUST BE KNOWLEDGEABLE ABOUT THE HAZARDS, AND TRAINED IN THE USE OF REQUIRED EQUIPMENT AND DETECTOR DEVICES, EMERGENCY PROCEDURES, AND PROPER USE OF THE FUMIGANT.

TREAT SITE PREPARATION

1. Seal all doors, windows, air vents, holes, feeds, mills, spices, milk tanks, warehouses, boxcars, fumigation vaults, flat or upright gran bin storage, tobacco warehouses, food processing plants and cargo ships.

2. Insects and Pests Controlled

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Commodity</th>
<th>Time/Hours Aeration/Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grain and Shelled Corn</td>
<td>Indian Meal Moth, Rusty Brown Grain Moth</td>
<td>2 - 4</td>
</tr>
<tr>
<td>Rice</td>
<td>Indian Meal Moth</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>

3. Use forced recirculation for bulk bins.

4. Maintain air at a level of 100,000 - 500,000 cu.ft.: 1 - 2 16 - 24 12

5. Commodity to be fumigated should be covered with tarpaulins and sealed, or in the case of boxcars, buildings and cargo ships, all external openings should be closed.

6. Special care should be taken to seal off adjacent storage or work areas of treatment sites that are not to be fumigated. Adjacently storing structures a common well should be cleaned of occupants before fumigation. If this is not feasible, a deck type building paper along the adjoining wall to prevent spread of the fumigant into undesired areas. Seal Kraft paper, asphalt-laminated paper, heavily oiled Kraft or wrapping paper and plastic film are all in such cases where the adjoining structure is occupied. It should be checked frequently with a suitable gas detector during fumigation to ensure the safety of the occupants. Check local regulations for specific requirements.

SPECIAL PROCEDURES FOR SHIP FUMIGATION

1. After fumigation, fumigated areas must be aerated until the air concentration level of methyl bromide is measured to be 5 ppm or less.

2. At the end of the exposure period, remove all seats and open all doors and windows are operational. Allow for continuous ventilation. Use ventilation fans where possible to remove fumigant from dead air pockets.

MONITORING, AERATION AND REENTRY

1. Before fumigation, fumigated areas must be aerated until the air concentration level of methyl bromide is measured to be 5 ppm or less.

2. At the end of the exposure period, remove all seats and open all doors and windows are operational. Allow for continuous ventilation. Use ventilation fans where possible to remove fumigant from dead air pockets.

3. Certain materials absorb methyl bromide. The absorption of fumigation and desorption during aeration may call for an extended monitoring and aeration period.

4. Drug gas detector, bendix gasteach detector (hand pump and detector tube)

- Methyl bromide can be detected at the Threshold Limit Value (T.L.V) of 5 ppm. Detectors are available from Soil Chemicals Corporation.

HALIDE LAMP DETECTOR

Color of the lamp and index of the concentration of methyl bromide present. The following tabulated information provides an index of flame color and concentration of methyl bromide present:

<table>
<thead>
<tr>
<th>Methyl Bromide</th>
<th>Flame Color</th>
<th>PPM</th>
<th>CFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>None</td>
<td>0.00625</td>
<td>0.25</td>
</tr>
<tr>
<td>50</td>
<td>Not visible</td>
<td>0.0125</td>
<td>0.50</td>
</tr>
<tr>
<td>125</td>
<td>Moderate</td>
<td>0.025</td>
<td>1.25</td>
</tr>
<tr>
<td>250</td>
<td>Strong</td>
<td>0.05</td>
<td>2.50</td>
</tr>
<tr>
<td>500</td>
<td>Strong</td>
<td>0.125</td>
<td>5.00</td>
</tr>
<tr>
<td>800</td>
<td>Strong</td>
<td>0.25</td>
<td>8.00</td>
</tr>
<tr>
<td>1000</td>
<td>Strong</td>
<td>0.5</td>
<td>10.00</td>
</tr>
</tbody>
</table>

- *Naphthyl color is identical but allowance must be made for the blast color of the flame itself.

NOTE: Halide lamp detector is suitable for locating leaks and for determining extent of aeration down to approximately 50 ppm. It is not suitable for clearing a structure for reentry.

RATES OF APPLICATION – METHYL BROMIDE 100%

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Examples of Pest Controlled</th>
<th>Dosage</th>
<th>Exposure Time</th>
<th>Estimated AERATION/HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>Indoors; rice, rye, wheat</td>
<td>0.25</td>
<td>24</td>
<td>12</td>
</tr>
<tr>
<td>Rice</td>
<td>Indoors; rice, rye, wheat</td>
<td>0.25</td>
<td>24</td>
<td>12</td>
</tr>
</tbody>
</table>

1. Use flame color as a test for color. For visible color, check with scale or SCC products. For additional information, consult APHIS Treatment Manual for additional treatment conditions and commodities.