**RESTRICTED USE PESTICIDE**
**DUE TO ACUTE TOXICITY**

For retail sale and also for Certified Applicator or persons under their direct supervision and only for those uses covered by the Certified Applicator’s certification.

**50-50 PREPLANT SOIL FUMIGANT**

**FOR CONTROL OF NEMATODES, WORMS, WEEED SEEDS, FUNGAL DISEASES, GRASS, AND SOIL BORNE INSECTS**

**ACTIVE INGREDIENT:**
- By wt.
  - Methyldi Bromide ----------------------------------------- 80%
  - Chloropicrin --------------------------------------------- 20%

**TOTAL** -------------------------------------------------- 100%

1.4 lbs. of active ingredient per gallon (liquid in cylinder)

**KEEP OUT OF REACH OF CHILDREN**

**DANGER PELIGRO**

**POISON**

**WARNING**

- Do not allow children to play near the treated area.

**KEEP OUT OFreach OF CHILDREN**

**POISON**

**IN ALL CASES OF OVEREXPOSURE, GET MEDICAL ATTENTION IMMEDIATELY. TAKE PERSON TO A DOCTOR OR TO AN EMERGENCY TREATMENT FACILITY.**

**FIRST AID**

- If Inhaled:
  - Move person to fresh air immediately.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration.

- On skin or clothing:
  - Remove clothing and wash affected area with soap and water.

- If Eyes:
  - Hold open and rinse eyes with plenty of water for 15-20 minutes.

- If in eyes:
  - Wash eyes for at least 15 minutes with plenty of water.

- If swallowed:
  - Wash mouth after exposure and rinse with plenty of water.

**NOTICE TO PHYSICIAN**

Early symptoms of exposure:
- To methyldi bromide are dizziness, headache, nausea, and vomiting, weakness, and collapse. Lung edema may develop in 2-12 hours after exposure. Acidosis, nausea, dyspnea, anxiety, and confusion are characteristic of toxicity. Inhalation of methyldi bromide fumes may cause immediate local excitation of the respiratory tract.
- Early symptoms of chloropicrin are nausea, vomiting, dizziness, and weakness.
- Poisons may be fatal within a period of 30-60 minutes.

**SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

**Produced for:**
- ICL-IP America, Inc., 50 MacColl Arise, SW
- South Charleston, WV 25305
- Toll Free: 800-746-3101
- Fax: (304) 746-3101

**IN CASE OF CONTACT WITH EYES OR SKIN:**

**Chemical Name:**
- Chloropicrin
- Methyldi Bromide

**Emergency Telephone:**
- (800) 746-3101

**EPA Reg. No.**
- 50022-30

**Contents:**
- 42-430
- 7087-027-0801

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

**DANGERS**

- Extremely hazardous liquid and gas under pressure.
- Not for use near or around people who have respiratory problems.
- Waste material can cause serious personal injury, which may have a delayed onset.
- Do not allow children to play near the treated area.
- Do not get liquid on skin, eyes, or on clothing.
- Do not handle, mix, or transport this material.

**FIRST AID**

- If inhaled:
  - Move to fresh air immediately.
- If breathing stops, give artificial respiration and call 911.

- On skin or clothing:
  - Remove clothing and wash affected area with soap and water.

- If Eyes:
  - Hold open and rinse eyes with plenty of water for 15-20 minutes.

- If in eyes:
  - Wash eyes for at least 15 minutes with plenty of water.

- If swallowed:
  - Wash mouth after exposure and rinse with plenty of water.

**PERSONAL PROTECTION EQUIPMENT (PPE)**

- Some materials that are already commercial or consumer products are considered to be hazardous to humans and may require additional personal protective equipment. These materials are considered to be hazardous to humans based on the criteria established by the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA), under the Hazard Communication Standard (29 CFR 1910). The use of PPE must be appropriate to the nature of the hazard and the degree of exposure.

**HANDLERS**

- The following activities are prohibited from being performed in the application block (i.e., the greenhouse or field portion of a farm field application) or within 1 hour after application to the treated area. Do not perform these activities unless required by the facility or lease agreement.
- Do not allow anyone other than those responsible for the application to handle the treated area or the material.
- Do not allow anyone other than those responsible for the application to handle the treated area or the material.

**PRECAUTIONS FOR USING THIS PRODUCT TO, DURING, AND AFTER SOIL FUMIGATION**

**Before Fumigation:**
- Give all equipment necessary for the application a thorough inspection and cleaning.
- Give all equipment necessary for the application a thorough inspection and cleaning.

**During Fumigation:**
- Change clothing and equipment every 6 hours.
- Change clothing and equipment every 6 hours.

**After Fumigation:**
- Clean all equipment and clothing.
- Clean all equipment and clothing.

**PROTECTION FOR HANDLERS**

**Suspension of Handlers**

**For all applicators:**
- Do not enter the treated area until the period has expired.
- Do not allow anyone other than those responsible for the application to enter the treated area.
- Do not allow anyone other than those responsible for the application to enter the treated area.

**For all handlers:**
- Do not enter the treated area until the period has expired.
- Do not allow anyone other than those responsible for the application to enter the treated area.
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**PROTECTION FOR HANDLERS**

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**For all handlers:**
- Do not enter the treated area until the period has expired.
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- Do not allow anyone other than those responsible for the application to enter the treated area.
IMPORTANT: A self-contained breathing apparatus (SCBA) is not permitted for routine handler tasks. Wear an SCBA and PPE required for liquid contamination incidents such as a spill or leak or when corrective action is needed to reduce air levels to acceptable levels.

USER SAFETY REQUIREMENTS

- Immediately after contamination, remove outer clothing, shoes and socks, and do not reuse until thoroughly washed or ventilated. Keep such clothing and shoes outdoors until thoroughly washed.
- Discard clothing and other absorbent materials that have been soaked or heavily contaminated with this product's concentrate. Do not re-use them.
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

Users should:

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

Providing, Cleaning, and Maintaining PPE

The employer of any handler (as stated in this label) must make sure that all handlers are provided and correctly wear the required PPE. The PPE must be cleaned and maintained as required by the Worker Protection Standard for Agricultural Pesticides.

Air-Purifying Respirator Availability for Pre-Plant Soil Use

At a minimum two handlers have the appropriate air-purifying respirator and cartridges available and that these handlers are fit-tested, trained, and medically examined. This must be documented in the FMP.

The employer of any handler must confirm that an air-purifying respirator and appropriate cartridges of the type specified in the PPE section of this label are immediately available for each handler who will work one.

Availability of Respirators for Emergencies

The employer of any handler must confirm that at least one self-contained breathing apparatus (SCBA) is on-site and readily for use in case of an emergency. This must be documented in the FMP.

Respirator Fit Testing, Medical Qualification, and Training

Employers must verify that any handler who uses a respirator is:

- Fit-tested and fit-checked using a program that complies with OSHA's requirements (see 29 CFR Part 1910.134)
Tarps (required for all applications)
- Tarps must be installed immediately after the fungicide is applied to the soil for bedded or broadcast applications.
- A written tarp plan must be developed and included in the FMP. The plan must include:
  - schedule and procedures for checking tarp for damage, tears, and other problems
  - plans for determining when and how repairs to tarp will be made, and by whom
  - minimum time following injection that tarp will be repaired
  - minimum size of tarp damage that will require repair
  - other factors used to determine how and when tarp repair will be conducted
- schedule, equipment, and methods used to perforate tarps
- aerate plans and procedures following perforation of tarp, but prior to tarp removal or planting/transplanting
- schedule, equipment, and procedures for tarp removal.

Weather Conditions
- Prior to fumigation, the weather forecast for the day of the application and the 48-hour period following the fumigation must be checked to determine if unfavorable weather conditions exist (see Identifying Unfavorable Weather Conditions section) or are predicted and whether fumigation should begin.
- Wind speed at the application site must be a minimum of 2 mph at the start of the application or forecasted to reach at least 5 mph during the application.
- Do not apply if a shallow, compressed (low-level) temperature inversion is forecasted for more than 3 consecutive hours for the 48-hour period after the start of the application, or if there is a air stagnation advisory issued by the National Weather Service in effect for the area in which the fumigation is planned.
- Detailed local forecasts for weather conditions, wind speed, and air stagnation advisories may be obtained at http://www.nws.noaa.gov or by contacting your local National Weather Service Forecasting Office.

- Check all tubes and chisels to make sure they are free of debris and obstructions.
- Check and clean the orifice plates and screen checks, if installed.
- Pressurize the system with compressed gas or compressed air, and check all fittings, valves, and connections for leaks using soap solution.
- Install the fungicide cylinder, and connect and secure all tubing. Slowly open the compressed gas or compressed air valve, and increase the pressure to the desired level. Slowly open the fungicide cylinder valve, always watching for leaks.
- When the application is complete, close the fungicide cylinder valve and blow residual fungicide out of the soil using compressed gas or compressed air. At the end of the application, disconnect all fungicide cylinders from the application rig. At the end of the season, seal unused fungicide cylinders with tape to prevent the entry of insects and dirt.
- Application equipment must be calibrated and all control systems must be working properly.
- Proper calibration is essential for equipment to deliver the correct amount of fungicide uniformly to the soil. Refer to the manufacturer’s instructions on how to calibrate your equipment, usually the equipment manufacturer, fungicide dealer, or Cooperative Extension Service can provide assistance.

Planting interval
- Wait a minimum of two weeks after fumigation before planting or transplanting. If odors of the fungicide persist beyond this two-week period (and after tarps are perforated and removed), disc or plow the soil to help aerate. See Tarp Perforation and/or Removal section on this label for further requirements.

Pre-Plant Soil Fumigation in Greenhouses: Mandatory GAPS

During the application keep doors, vents and windows to the outside open and fans or other mechanical ventilation systems running with the application block. Leaks through which gases could enter adjacent enclosed areas must be sealed.
SOIL PREPARATION

Before treatment the soil should be in condition for planting and with sufficient moisture to support seed germination.

If fumigation is being done to control nematodes, till the soil to a depth of at least 15 inches.

APPLICATION RESTRICTIONS

For use on only sites and at all locations that qualify for exemptions under the Montana Integrated Pest Management Act, without additional restrictions or exemptions for area sites, and for areas listed in the Table 2 of this label.

This product may only be used on crops/uses identified in the Quarantine Section in Table 1 and 2 of this label.

Tares must be used for all applications.

The maximum application block size averaged over

100 acres for targeted broadcast and broadcast applications.

Table 1. Maximum Application Rates For Crops/Uses With Critical Use Exemptions

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onion</td>
<td>350-400 g/acre</td>
</tr>
<tr>
<td>Buckwheat, Canola</td>
<td>250-350 g/acre</td>
</tr>
<tr>
<td>Forest roadway seedings</td>
<td>375-400 g/acre</td>
</tr>
<tr>
<td>Orchard preliminary treatment, orchard trees, roots</td>
<td>250-350 g/acre</td>
</tr>
<tr>
<td>Strawberry Numerals</td>
<td>275-325 g/acre</td>
</tr>
<tr>
<td>Ornamentals</td>
<td>250-400 g/acre</td>
</tr>
<tr>
<td>Apple, peach, pear</td>
<td>300-400 g/acre</td>
</tr>
<tr>
<td>Strawberry Fruit</td>
<td>325-375 g/acre</td>
</tr>
<tr>
<td>Onion (grown for fresh market)</td>
<td>340-400 g/acre</td>
</tr>
<tr>
<td>Tomato (grown for fresh market)</td>
<td>340-400 g/acre</td>
</tr>
</tbody>
</table>

Quarantine Use

This product may be used as a soil fumigant on any crop or non-crop site as a part of a quarantine program established by the United States Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS). Cultural and weed control practices may be used in accordance with US Department of Agriculture (USDA) guidelines. Other practices not specified in the USE statements for that crop or non-crop site may be used as long as there is no potential for the fumigant to move off the quarantine site.

Table 2. Maximum Application Rates For Crops/Uses Without Critical Use Exemptions

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rape</td>
<td>350-400 g/acre</td>
</tr>
<tr>
<td>Tobacco</td>
<td>340-400 g/acre</td>
</tr>
</tbody>
</table>

Other Quarantine Use (not USDA-APHIS Quarantine Use)

Crop use of methyl bromide is not recommended for the production of plant propagative material listed below and unplanted areas immediately adjacent thereto, where all production from the treated fields will be shipped to areas under the jurisdiction or control of a federal or state animal health authority, and where the incoming material to be free of quarantine pests or be accompanied by a certificate issued by a state animal health authority.

USEA-APHIS Quarantine Use

Other applications for use with methyl bromide are restricted to the soil application by injection or條

In order to be used for distribution of other quarantine pest material.

SEAL, LEAK AND PROCEDURE RESTRICTIONS

i. In case of a rupture of hose or fitting, while applying, immediately stop tractor and remove.

j. Evacuate everyone from the immediate area of the spill or leak.

k. Wear the personal protective equipment and use the safety and health information included on the label.

m. The user should be aware of the potential hazards associated with methyl bromide.

n. Contaminated soil, waste, and other cleanup debris is a toxic hazardous waste.

 o. Do not enter area without the required PPE until the spill has evaporated or the leak has been fixed.

Table 3. Application Rate for Site-Specific Disinfection

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Site-Specific Disinfection</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 g/acre</td>
<td>Site-Specific Disinfection</td>
</tr>
</tbody>
</table>

Nematicide application for site-specific disinfection with methyl bromide is not recommended.

STORAGE AND DISPOSAL

Do not COMBINE WATER, FUEL, AND PESTICIDE OR DISPOSAL. PESTICIDE STORAGE AND HANDLING

In a secure manner, outdoors under ambient conditions in a well ventilated area. Pesticide mixing, handling, and storage should be performed only indoors.

Pesticides not in use, stored in a secure manner under ambient conditions in a dry area.

Pesticides not in use, stored in a secure manner under ambient conditions in a dry area.

PESTICIDE DISPOSAL

Pesticides are toxic. Improper disposal of excess pesticide, waste rinsates, or rinsewater is not appropriate for public safety. All pesticides should be disposed of in an appropriate manner.

CONTAINER DISPOSAL

Containers are the property of the manufacturer or distributor and must be returned promptly by the user.

DO NOT DISPOSE OF CHEMICALS INVOLVED IN THE LABELLED USES IN THE HOME OR COMMUNITY.

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, express or implied, including but not limited to warranties of merchantability, fitness for a particular purpose, or non-infringement.

Legal Notice: These warnings, cautions, and statements are intended to provide you with a comprehensive picture of how to use the product safely. If you have any questions about using the product, please contact the manufacturer or distributor for further information.
 GENERAL INFORMATION

50-50 Preplant Soil Fumigant is used for the control of soil-born pests such as:
- Wireworms: June beetle larvae, white grubs and garden slugs
- Soil-born fungi, including Verticillium, Fusarium, Pythium, Rhizoctonia Phytophthora, Pyrenochaeta, Sclerotina, Sclerotium, Armillaria, and the clubroot organism, Plasmodiophora.
- Nematodes (such as Chionomorides, Tylenchus, Pratylenchus, Xiphinema and Paratylenchus species)
- Broadleaf and grassy weeds, such as annual bluegrass, bromegrass, common lambsquarters,
  torpedograss, nutseed, Bermudagrass and quackgrass at higher rates.

50-50 Preplant Soil Fumigant is not effective against mallow, flaxseed dodder, some species of clover
and certain other hard seeded weeds. Crops listed below can be treated.

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, express 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.