



PM 32 8853-3 Page 1 of 9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

NOV 18 1994

DOUGLAS V. CURTIS  
HENDRIX AND DAIL, INC.  
P.O. BOX 648  
803 INDUSTRIAL BLVD.  
GREENVILLE, N.C. 27835

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 7/08/94 in Response to PR Notice 93-7  
EPA Reg. No. 8853-3  
MBC 33 SOIL FUMIGANT

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

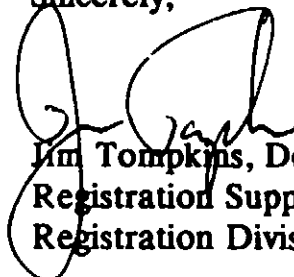
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

Hendrix and Dail, Inc.

Comments for: EPA REG. NO. 8853-3  
MBC 33 SOIL FUMIGANT

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

**Under PERSONAL PROTECTIVE EQUIPMENT**

Modify as follows:

Applicators and other handlers must wear:

Full-face shield or safety glasses with brow and temple shields when handling liquid product (DO NOT wear goggles)".  
When the acceptable air concentration level is above 5 ppm and a respirator is required, protect the eyes by wearing a full-face respirator.

**Under "PLACARDING OF FUMIGATED AREAS"**

Change "signs must remain legible" to "signs must remain legible during the entire posting period"

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

**DANGER PELIGRO**

EXTREMELY HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE.  
INHALATION MAY BE FATAL OR CAUSE SERIOUS ACUTE ILLNESS OR DELAYED LUNG OR NERVOUS SYSTEM INJURY.  
DO NOT BREATHE VAPORS.  
LIQUID OR EXCESSIVE VAPOR CAN CAUSE SERIOUS SKIN OR EYE INJURY WHICH MAY HAVE A DELAYED ONSET.

DO NOT GET LIQUID ON SKIN, IN EYES OR ON CLOTHING.

THIS PRODUCT CONTAINS CHLOROPICRIN WHICH MAY BE IRRITATING TO THE UPPER RESPIRATORY TRACT, AND EVEN AT LOW LEVELS CAN CAUSE PAINFUL IRRITATION TO THE EYES, PRODUCING TEARING. IF THESE SYMPTOMS OCCUR, LEAVE THE FUMIGATION AREA IMMEDIATELY. EARLY SYMPTOMS OF CHLOROPICRIN OVEREXPOSURE ARE LACHRYMATION, RESPIRATORY DISTRESS AND VOMITING.

**AIR CONCENTRATION LEVEL**

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/m<sup>3</sup>). The acceptable air concentration level for persons exposed to methyl bromide is 5 ppm (20 mg/m<sup>3</sup>), except that for entry into residential commercial structures the acceptable air concentration level is 3 ppm. The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear:  
Loose-fitting or well ventilated long sleeved shirt and long pants  
Shoes and Socks  
Full-face shield or safety glasses with brow and temple shields  
(DO NOT wear goggles.)

When the acceptable air concentration level is above 5ppm and a respirator is required, protect the eyes by wearing a full-face respirator.

No respirator is required if the air concentration level of chloropicrin in the working area is measured to be less than .01ppm AND the air concentration methyl bromide in the working area is measured to be less than 5ppm.

A respirator is required if the acceptable air concentration level of 0.1ppm for chloropicrin OR 5ppm of methyl bromide is exceeded at any time. The respirator must be one of the following types: (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

**SAFETY REQUIREMENTS**

1. Do not wear jewelry, gloves, goggles, tight clothing, rubber protective clothing or rubber boots when handling. Methyl bromide and chloropicrin are heavier than air and can be trapped inside clothing and cause skin injury.
2. If liquid fumigant splashes or spills on clothing, remove them at once as fumes will be an intolerable source of irritation.
3. Immediately after contamination remove outer clothing, shoes, and socks and do not reuse until thoroughly aerated or ventilated. Keep such clothing and shoes outdoors until thoroughly aerated. Then follow the PPE manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE and work clothing separately from other laundry.
4. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
5. Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

**RESTRICTED USE PESTICIDE  
DUE TO ACUTE TOXICITY**

For retail sale to and use only by Certified Applicators or persons under direct supervision, and only for those uses covered by the label certification.

**MBC-33 FUMIGANT**

Active ingredients: .....  
Methyl Bromide .....  
Chloropicrin .....

*To Control Many Weeds, Grubs,  
Nematodes And Insect Pests  
In Plant Beds, And Nurseries*

**BEST AVAILABLE COPY**

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

Si Usted no entiende la etiqueta, busque a alguien para se lo explique en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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

**STATEMENT OF PRACTICE FOR  
TREATMENT**

IF INHALED: Remove exposed person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing, give oxygen. Call a physician.

IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes while removing contaminated clothing and shoes. Immediately available, remove excess chemical from skin with material such as towel or dry soil, then proceed at once where water is available and thoroughly wash contaminated area with plenty of water. Call a physician.

IF IN EYES: Immediately flush eyes with plenty of water for 15 minutes. Call a physician.

IF SWALLOWED: Do not induce vomiting. Call a physician or Poison Center immediately. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Early symptoms of overexposure to methyl bromide include headache, nausea and vomiting, weakness and collapse may develop in 2 to 48 hours after exposure, accompanied by irregularities; these effects are the usual cause of death. Overexposures can result in blurred vision, staggering gait, imbalance, with probable recovery after a period of no exposure. Bromide levels suggest the occurrence, but not the degree of exposure.

2. If liquid fumigant splashes or spills on clothing, remove them at once as fumes will be an intolerable source of irritation.
3. Immediately after contamination remove outer clothing, shoes, and socks and do not reuse until thoroughly aerated or ventilated. Keep such clothing and shoes outdoors until thoroughly aerated. Then follow the PPE manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE and work clothing separately from other laundry.
4. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
5. Follow PPE 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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### 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 workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

All persons working with this fumigant must be knowledgeable about the hazards and trained in the proper use of required equipment and detector devices, emergency procedures and proper use of the fumigant.

#### PLACARDING OF FUMIGATED AREAS

The applicator (or supervisor of the application) must placard all entrances to the fumigated area with signs bearing:

- Skull and Crossbones
- DANGER/PELIGRO
- Area under fumigation, DO NOT ENTER/NO ENTRE.
- Methyl Bromide and Chloropicrin Fumigants in use,
- the date and time of fumigation, and
- name, address and telephone number of the applicator.

Do not allow entry by unprotected persons into the fumigated area until signs are removed. Such signs must only be removed when the air concentration level of chloropicrin is to be less than 0.1 ppm AND the air concentration level of methyl bromide is measured to be less than 5 ppm. Signs must remain legible

plenty of water. Call a physician. <sup>5 7 9</sup>

IF IN EYES: Immediately flush eyes with plenty of water minutes. Call a physician.

IF SWALLOWED Do not induce vomiting. Call a physician Center immediately. Never give anything by mouth to person.

NOTE TO PHYSICIAN: Early symptoms of overexposure headache, nausea and vomiting, weakness and collapse may develop in 2 to 48 hours after exposure, accompanied by irregularities; these effects are the usual cause of dizziness; these effects are the usual cause of dizziness; these effects are the usual cause of dizziness, with probable recovery after a period of no bromide levels suggest the occurrence, but not the degree. Treatment is symptomatic.

See Side Panel For Additional Precautionary St.



**HENDRIX and DA**

TELEPHONE (919) 758-4263 80  
GREENVILLE, NORTH CAROLINA

NET CONTENTS: ..... Pounds

**E.P.A est.** 88

E.P.A. REGISTRATION 88  
No. 8853-3 88

**METHYL BROMIDE - CHLOROPICRIN MIXTURE**  
WEIGHT: 14.2 POUNDS PER GALLON

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

NOV 18 1981

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

8853-3

**BEST AVAILABLE COPY**

PRECAUTIONARY STATEMENTS (CONTINUED):

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment, restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

No instructions elsewhere on this labeling relieve users from complying with the requirements of the WPS.

ENTRY RESTRICTIONS

Outdoor Soil Fumigation: Entry (including early entry that would otherwise be permitted under the WPS) by any person - other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling - is PROHIBITED from the start of application until 48 hours after application. In addition, if tarps are used for the application, non-handler entry is prohibited while tarps are being removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting fumigant warning signs, as described in the "Placarding of Fumigated Areas" section of this labeling. Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal.

Outdoor Soil Fumigation: Post the fumigant warning signs at entrances to treated areas.

PPE FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD: PPE for entry that is permitted by this labeling is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Do not contaminate water, food or feed by storage. 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 cylinders 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. 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.

RETURN OF CYLINDERS

Cylinders are the property of:

HENDRIX AND DAIL, INC.  
803 Industrial Blvd.  
Greenville, North Carolina 27834  
(919) 758-4263

and should be returned promptly by collect truck freight to the location from which shipment was made. When a cylinder is partially full and there is no further requirement for the product, contact HENDRIX AND DAIL, INC. for return instructions.

SHIPPING

This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as (67-33) Chloropicrin and Methyl Bromide mixture 2.3 UN 1581 Poison-Inhalation Hazard-Hazard Zone B and no exemptions from specifications, packaging, marking, or labeling are allowed. Describe empty cylinders as having last contained Chloropicrin and Methyl Bromide Mixture (inhalation hazard). Do not ship with foods, feeds, or clothing.

DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate 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...

APPLICATION DIRECTIONS

A preplant soil fumigant for the control of certain plant beds, nurseries and certain nematodes controlled are root knot, le formers, lance, sting pin, and certain wireworms and white grubs present in, also controlled. Examples of weeds that pigweed, nutgrass, crabgrass, goosegrass, purslane, wild morning glory, and grasses. MBC-33 soil fumigant will forest tree, ornamental shrub and turf flower, forest tree, tomato, tobacco, etc beds; as well as in other soil where grown as food crops. May also be used transplanting for control of granville wilt, not use more than 350 lbs. of MBC-33 p strawberries and tomatoes grown as for

WHEN TO TREAT: Treatments can be made whenever soil conditions are suitable. In early fall treatments are best for land to

SOIL PREPARATION: To facilitate fumigation should be worked into the soil and after treating. Soil must be in good workable condition (degrees F. at the five-inch level), with a germination. Do not treat if the soil temp the five-inch level. Deep tillage, 12 to 18 especially in heavy or muck soils.

APPLICATION: Apply at the rate 250 to chisel-type applicator to inject MBC-33 into the soil. For tobacco cropland, apply at depending on soil conditions and disease this fumigant, treated areas must be covered soon as possible, preferably within 20 The film may be laid manually or mechanically

EXPOSURE PERIOD AFTER TREATMENT

For soil temperatures above 60 degrees with the plastic film for at least 48 hours before diffusion. For soil temperatures below 60 period to 3 or 4 days for optimum results

WHEN TO PLANT AFTER TREATMENT

Crops can usually be seeded 2 to 3 days transplants, aerate for 7 to 10 days. If (60 degrees F.) occur during aeration, tomato and strawberry transplants, aerate

PRIOR TO FUMIGATION

POST ALL TREATED AREAS

Comply with all local regulations and or permit from Agricultural Regulatory Agency Never fumigate alone. It is imperative to use proper protective equipment in case of an emergency. Drivers of application equipment must advise and procedures. In addition, drivers must mechanical operations of the tractor and Handle this fumigant in the open, with container where there is good ventilation

Check fumigant pressure systems for leaks Two trained persons must be present during fumigation When fumigating soil from a tractor, stop the tractor and placed where it is readily available on the tractor, at least 5 gallons from the service truck. This water must be marked "Decontamination water not to be All trash should be cleared from the field

DURING FUMIGATION

This fumigant should not be applied when Since uncomfortable concentrations of areas, immediately cover treated area with of 48 hours.

Do not fill injection shanks to turn at the

BEST AVAILABLE COPY

7 7 9

in contaminated skin with  
ity of water for at least 15  
physician or Poison Control  
mouth to an unconscious  
reexposure are dizziness,  
nd collapse. Lung edema  
, accompanied by cardiac  
use of death. Repeated  
laggering gait and mental  
od of r exposure. Blood  
k the degree of exposure.  
tionary Statements.

**SHIPPING**  
This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as (67-33) Chloropicrin and Methyl Bromide mixture 2.3 UN 1581 Poison-Inhalation Hazard-Hazard Zone B and no exemptions from specifications, packaging, marking, or labeling are allowed. Describe empty cylinders as having last contained Chloropicrin and Methyl Bromide Mixture (Inhalation hazard). Do not ship with foods, feeds, or clothing.

**DISPOSAL**  
Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue 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.

When fumigating soil from a tractor and placed where available on the tractor, at least from the service truck. This method "Decontamination wash" All trash should be cleared from  
**DUR**  
This fumigant should not be applied since uncomfortable concentration areas. Immediately cover treated areas of 48 hours.  
Do not BR injection tanks to be drained from system following  
If trash is inadvertently pulled in fumigating, it must be covered with polyethylene film before  
When changing the cylinders, system is not under pressure  
**AFT**  
Keep pets, livestock, and other animals out of area during application, during applications in Directions to Two trained persons must be

**WARRANTY DISCLAIMER**

**NOTICE:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

**INHERENT RISKS OF USE:** It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label and label booklet instructions (including conditions noted on the label and label booklet, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, all of which are beyond the control of the company or the seller. All such risks shall be assumed by Buyer.

**LIMITATION OF REMEDIES:** The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at the company's election, one of the following: (1) Refund of purchase price paid by buyer or user for product bought; or, (2) Replacement of amount of product used. The company shall not be liable for losses or damages resulting from handling or use of this product unless the company is promptly notified of such loss or damage in writing. In no case shall the company be liable for consequential or incidental damages or losses. The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statement or agreements. No employee or sales agent of the company or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

**id DAIL, Inc.**  
803 INDUSTRIAL BLVD.  
CAROLINA 27834

- .... Pounds
- 8853- FL - 1 [ ]
- 8853- GA - 1 [ ]
- 8853- NC - 1 [ ]
- 8853- KY - 2 [ ]
- 8853- NC - 2 [ ]

**IN MIXTURE, LIQUID**  
GALLON

HD 7-94

icide,  
e Act  
icide  
No.

**BEST AVAILABLE COPY**

### APPLICATION DIRECTIONS

soil fumigant for the control of nematodes, insects, and weeds in plant beds, nurseries and certain field crop areas. Typical pests controlled are root knot, lesion, dagger, stunt, spiral, cyst, nematode, sting pin, and certain other species. Such insects as wireworms and white grubs present in the soil at time of treatment are killed. Examples of weeds that are controlled include chickweed, nutgrass, crabgrass, goosegrass, crowfoot grass, barnyard grass, wild morning glory, and many other broad leaved weeds. MBC-33 soil fumigant will give excellent performance in ornamental shrub and turf nurseries. In annual and perennial vegetable crops, tomato, tobacco, strawberry, and ornamental plant as well as in other soil where strawberries and tomatoes are grown. May also be used on tobacco crop land prior to planting for control of granville wilt, blackshank, and nematodes. Do not apply more than 350 lbs. of MBC-33 per acre on all soils to be used for strawberries and tomatoes grown as food crops.

**TREAT:** Treatments can be made in the spring, summer, or fall when soil conditions are suitable. In northern states, late summer or fall treatments are best for land to be planted to early spring crops.

**PREPARATION:** To facilitate fumigant penetration, crop residues should be worked into the soil and allowed time to decompose before planting. Soil must be in good workable seed bed condition, warm (50-60 degrees F. at the five-inch level), with adequate moisture for good seed germination. Do not treat if the soil temperature is below 45 degrees F. at the five-inch level. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

**APPLICATION:** Apply at the rate 250 to 950 lbs. per acre with a special applicator to inject MBC-33 soil fumigant about 5 inches into the soil. For tobacco cropland, apply at the rate of 85-128 lbs. per acre. For other soil conditions and disease pressure. Due to the volatility of the fumigant, treated areas must be covered with polyethylene film as soon as possible, preferably within 20 minutes of fumigant application. The cover may be laid manually or mechanically with a tarp-layer.

#### EXPOSURE PERIOD AFTER APPLICATION

For soil temperatures above 60 degrees F., leave the treated soil covered with plastic film for at least 48 hours before removal to ensure maximum fumigant exposure. For soil temperatures below 60 degrees F., extend the exposure to 7 or 4 days for optimum results.

#### WHEN TO PLANT AFTER THE EXPOSURE PERIOD

Soil should usually be seeded 2 to 3 days after the cover is removed. For tobacco, aerate for 7 to 10 days. If rains or low temperatures (below 50 degrees F.) occur during aeration, extend the aeration period. For strawberries, aerate 2 weeks.

#### PRIOR TO FUMIGATION

##### POST ALL TREATED AREAS WITH WARNING SIGNS

Observe all local regulations and ordinances. Obtain an application from Agricultural Regulatory Agencies as required.

Fumigate alone. It is imperative always to have an assistant and protective equipment in case of accidents.

Application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct their helpers in the proper operations of the tractor and driver while fumigating.

Do not use fumigant in the open, with the operator "up wind" from the fumigant where there is good ventilation.

Check fumigant pressure systems for leaks before beginning operation.

At least two persons must be present during introduction of the fumigant.

When fumigating soil from a tractor, 5 gallons of water must be carried on the tractor and placed where it is readily accessible. In addition to water on the tractor, at least 5 gallons additional water must be available in a service truck. This water must be potable and in containers clearly marked "contamination water not to be used for drinking."

Fields should be cleared from the field before starting fumigation.

#### DURING FUMIGATION

Fumigation should not be applied when there is an atmospheric inversion. Uncomfortable concentrations of chloropicrin may drift to nearby areas. Immediately cover treated area with plastic tarpaulin for a minimum of 24 hours.

Injection shanks to turn at the end of a pass until fumigant has been evenly distributed in the soil.

### USE PRECAUTIONS

**NOTE CAREFULLY:** Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acid, or high in organic matter. To avoid injury to plants, fertilize as indicated by plant nutrient tests made after fumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use any fertilizers containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65 degrees F. Certain crops are tolerant to ammonia therefore the above rule does not apply to them. Liming high acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

Do not contaminate fumigated areas by walking from unfumigated to fumigated soil. If the treated area is in a location where flooding or washing is possible after rains, plow a furrow or make a ditch around it for proper drainage. Wooden frames around the beds are also satisfactory for preventing this type of contamination.

MBC-33 soil fumigant is toxic to plants; therefore, do not apply to areas containing roots or desirable vegetation. The edge of the cover should be at least 18 inches beyond foliage drip line of living plants.

Some difficulty has been experienced through the use of MBC-33 on soil planted to the following crops: conifers, salvia, snapdragons, carnation, multiflora roses, Burford's Chinese holy, as well as certain other plants. Fumigate on a small scale until safety to all plants is determined under growing conditions.

Avoid reinfestation of treated soil. Do not use transplants, tools, or crop remains infested with soil-borne plant parasitic pests and weed seeds. Clean applicator carefully before and after use.

#### Spill and Leak Procedures for Soil Fumigation

In cases of a rupture of hose or fitting while applying fumigant, immediately stop tractor and motor. Evacuate everyone from the immediate area of the spill or leak. Wear the personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling for entry into affected area to correct problem. Approach from upwind to make necessary repairs. Do not enter area without the required PPE until the spill has evaporated or the leak has been fixed.

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.

### DO NOT SPILL OR DISCHARGE CONTENTS OUTSIDE GROUND COVER

#### ENVIRONMENTAL HAZARD

This pesticide is toxic to wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### CHEMICAL HAZARD

Do not use containers or application equipment made of magnesium, aluminum, or their alloys, as under certain conditions this fumigant may be severely corrosive to such metals. Do not permit water to be used to clean fumigant pressure system as corrosion will result. Diesel oil is satisfactory for this purpose. Generally, nonmetallic materials (plastics) may not be used in methyl bromide service. The exceptions are: cross-linked polyethylene used for hoses, and fluoropolymers Kynar® and Teflon® used as gaskets. Nylon and Polyvinyl chloride (PVC) should be avoided where direct contact with methyl bromide will occur.

**BEST AVAILABLE COPY**



from a tractor, 5 gallons of water must be carried on it where it is readily accessible. In addition to water on the tractor, at least 5 gallons additional water must be available at the site. This water must be potable and in containers other than water not to be used for drinking.

leaved from the field before starting fumigation.

**DURING FUMIGATION**

not be applied when there is an atmospheric inversion. Concentrations of chloropicrin may drift to nearby untreated areas with plastic tarpaulin for a minimum of 24 hours.

Shanks to turn at the end of a pass until fumigant has been applied following closure of shut off valve.

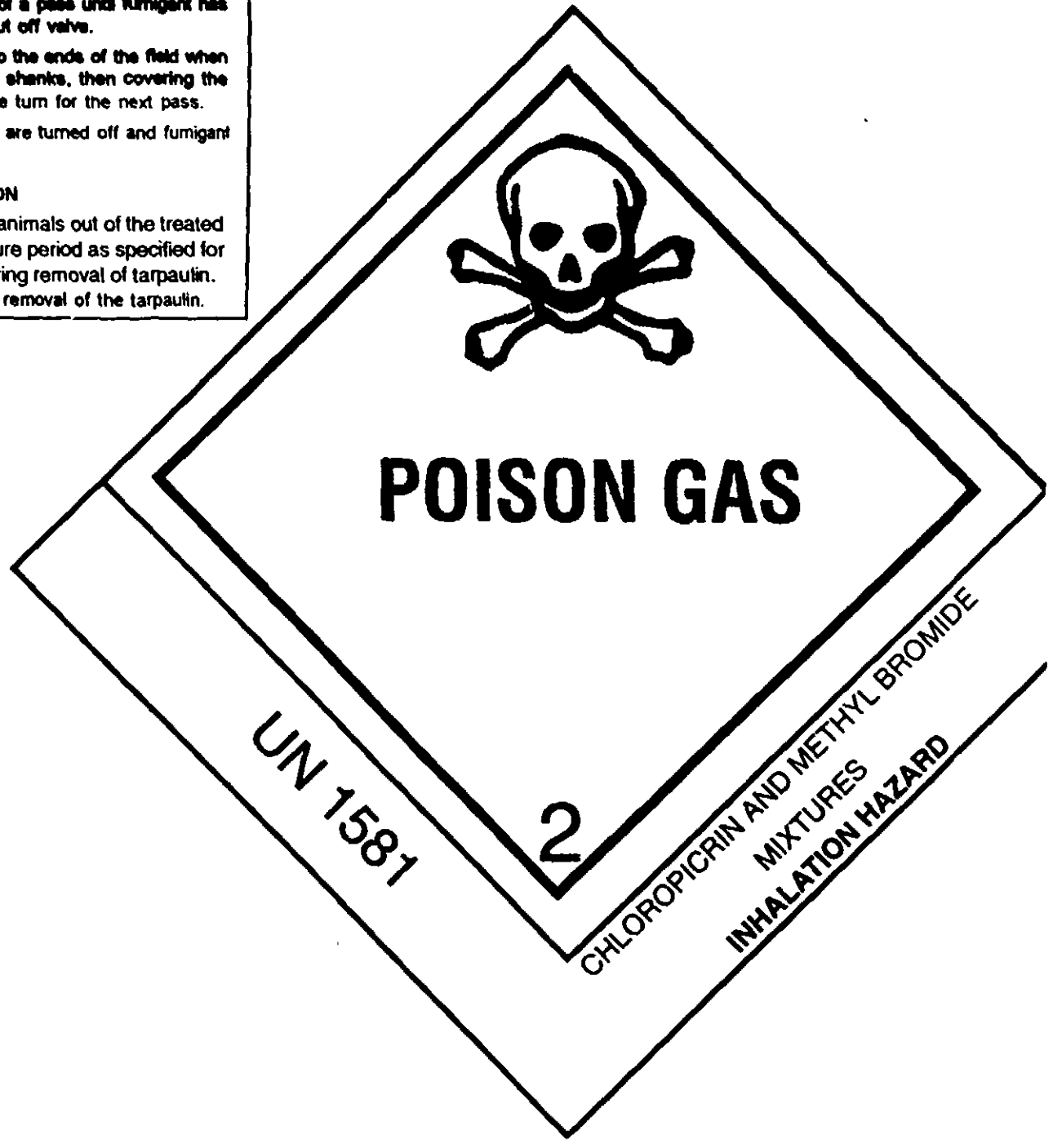
Shanks pulled by the tractor to the ends of the field when the tarpaulin is covered by lifting the shanks, then covering the tarpaulin before making the turn for the next pass.

After fumigation, be certain they are turned off and fumigant pressure is zero.

**AFTER FUMIGATION**

Remove livestock, and other domestic animals out of the treated area, during the exposure period as specified for Chloropicrin and Methyl Bromide Mixtures. A person must be present during removal of the tarpaulin.

used in methyl bromide service. The exceptions are: cross-linked polyethylene used for hoses, and fluoropolymers Kynar® and Teflon® used as gaskets. Nylon and Polyvinyl chloride (PVC) should be avoided where direct contact with methyl bromide will occur.



**BEST AVAILABLE COPY**