

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.

ACCEPTED
MAY 25 1987
5785-24

TERR-O-GAS® 67

PREPLANT SOIL FUMIGANT

ACTIVE INGREDIENTS:	By Wt.
Methyl bromide.....	67%
Chloropicrin.....	33%
TOTAL	100%

This product weighs 14.2 pounds per gallon.

DANGER

PELIGRO

KEEP OUT OF REACH OF CHILDREN

POISON

PRECAUTION AL USUARIO: Si usted no le Ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

Statement of Practical Treatment.

In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

Add "Do not give anything by mouth to an unconscious person."

IF INHALED: Remove exposed person from contaminated area

Keep warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration.

➤ **If not unconscious,** rinse mouth out with water.

IF ON SKIN: Immediately remove contaminated clothing, shoes, and any other item on skin. Wash contaminated skin area thoroughly with soap and water.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT _____ **LBS.**
LOT NUMBER _____

EPA REG. NO. 5785-24-AA
EPA EST. NO. 5785-AR-01

GREAT LAKES CHEMICAL CORPORATION
WEST LAFAYETTE, INDIANA 47906

AR-24-L

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
DANGER**

Extremely hazardous liquid and vapor under pressure. Do not breathe vapor. Inhalation may be fatal or cause serious acute illness or delayed lung or nervous system injury. Liquid or ~~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 may cause painful irritation to the eyes, producing watering. If these symptoms occur, leave the fumigation area immediately.

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 overexposures 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.

PROTECTIVE CLOTHING. Methyl bromide may be trapped inside clothing and cause skin injury. Wear loose, long trousers and long-sleeved clothing and socks that are cleaned after each wearing. Do not wear jewelry, gloves or other gas confining apparel. If full-face respiratory protection is not required, wear full face shield for eye protection when handling liquid. Do not reuse contaminated clothing until thoroughly cleaned and shoes until aerated.

RESPIRATORY PROTECTION. Respiratory protection equipment is required when using Terr-O-Gas 67 for certain applications. Refer to the Directions for Use for complete instructions on the requirements for respiratory protective equipment.

Add "After application immediately remove clothing, shoes and socks." and "Drenched clothing cannot be adequately decontaminated"

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Revise per 3(c) on page 22 of the Methyl Bromide Registration Standard.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

Add: "immediately stop tractor and motor."

SPILL AND LEAK PROCEDURES. In case of a rupture of hose or fitting while applying fumigant, immediately evacuate area of spill or leak. Use a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator for entry into affected area to correct problem. Approach from upwind to make necessary repairs. Do not reenter area without respiratory protection until a spill has evaporated or a leak has been repaired, and the methyl bromide concentration is determined to be less than 5 ppm and the chloropicrin concentration is determined to be less than 0.1 ppm. In case of a leaking container, remove to an isolated area and discharge contents under a polyethylene sheeting of 4 mil or greater thickness onto the soil surface in accordance with instructions under Soil Fumigation 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 pounds is exceeded.

PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. In fires fueled by other materials, Terr-O-Gas 67 may liberate hazardous gases. The use of Terr-O-Gas 67 with aluminum, magnesium, zinc and alkali metals will result in the liberation of toxic gases, and possible fire and explosion. In addition, severe corrosion of containers and equipment made of these metals will occur.

DIRECTIONS FOR USE

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

Add the statements under 4(g) on page 24 of the Standard.

STORAGE, HANDLING, AND DISPOSAL

Storage and Handling. Store in a locked, dry, cool, well-ventilated area. 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. Containers 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 reuse. Replace safety cap and valve protection bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap on to valve outlet, and replace protection bonnet before returning to shipper. Only the registrant, or his designee, is authorized to refill cylinders. Do not use cylinders for any other purpose.

Disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal law. If these wastes can not 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 of guidance. Return empty cylinders freight collect to the Great Lakes Chemical Corporation location from which shipment was made. Return partial cylinders only after consulting Great Lakes Chemical Corporation for proper shipping instructions. In either case, use delivering carrier when possible.

SOIL FUMIGATION DIRECTIONS. Terr-O-Gas 67 may be used only for soil fumigation. The following precautionary procedures must be followed.

PRECAUTIONARY STATEMENTS. The following precautions must be followed **PRIOR** to soil fumigation.

- A) Comply with all local regulations and ordinances. Obtain an application permit from agricultural regulatory agencies as required.
- B) Never fumigate alone. It is imperative to always have an assistant present and proper protective equipment available in case of accidents.
- C) Persons in charge of all operations must advise other workers of all safety precautions and procedures. In addition, they must instruct their helpers in the mechanical operation of the equipment.
- D) Check fumigant delivery system for leaks before beginning operation.
- E) 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 available on the tractor, at least 5 gallons of additional water must be available from the service truck. This water must be potable and in containers marked "Decontamination water, not to be used for drinking."

Statements omitted: See pages 15 of the Brom-O-Gas Booklet.

The following precautions must be followed DURING the soil fumigation operation.

- A) Two trained persons must be present during introduction of the fumigant.
- B) Do not make application of this fumigant when there is little or no air movement or there is an atmospheric inversion.
- C) Do not lift injection shanks to turn at the end of a pass until fumigant has been purged or drained from system following closure of shutoff valve.
- D) If trash is inadvertently pulled up by the shanks when fumigating, it must be covered with polyethylene film.
- E) When changing the cylinders, be certain they are turned off and fumigant system is not under pressure.

The following precautions must be followed AFTER soil fumigation.

- A) Post all treated areas with warning signs until aeration is complete.
- B) Two trained persons must be present during removal of the tarpaulin, if used.
- C) Keep all animals and unauthorized people away from area during removal of tarpaulin, if used.

APPLICATION METHODS. Terr-O-Gas 67 is to be used only as a preplant soil fumigant.

A. Tarpaulin Methods for Field, Nursery, Turf, Greenhouse, And Seed or Transplant Bed Soils.

Pests controlled when present in soil at time of treatment:

Plant-parasitic nematodes, including root-knot, root lesion (meadow), cyst, citrus, burrowing, false root knot, lance, spiral, ring, sting, stubby root, dagger, awl, sheath, and stunt (stylet).

Soil-borne disease causing organisms, including the fungi Pythium, Rhizoctonia, Phytophthora, Pyrenochaeta, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism Plasmodiophora.

Weeds, including broadleaf weeds such as broomrape and lambsquarters and grasses such as bermudagrass, annual bluegrass, torpedograss and quackgrass. Not effective against hard seed weeds, such as mallow, dodder, morningglory, and certain leguminous weeds.

Insects, including wireworms, cutworms, grubs, rootworms, ants, and garden symphylans.

NOTE: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. Accumulation of ammonium is most likely to occur when maximum rates of fumigant and fertilizer are applied to soils that are acidic, wet, cold, or high in organic matter. Apply only fertilizer containing at least 30% nitrate until the crop is well established and soil temperature is above 65°F., then fertilize as indicated by soil test. Acid soils should be limed before fumigation to stimulate nitrification and to reduce possible ammonium toxicity.

Pre-treatment Soil Preparation. Plow, or rip or otherwise till the soil to the depth to which effective treatment is required. The soil should be worked until free of clods or large lumps. Residue from previous crops should be worked into the soil to allow for decomposition prior to fumigation. Soil moisture should be adequate for seed germination. Coarse textured soils can be fumigated with higher moisture content than fine textured soils. For best results, soil should be kept moist for at least four days prior to treatment. Do not fumigate if the soil temperature is below 50°F. For best results, fumigate when soil temperature is 60°F. to 80°F. at the depth of 6 inches.

1. Overall Application. Inject Terr-O-Gas 67 with a chisel type applicator having the chisels spaced no more than 12 inches apart and injecting the fumigant to a depth of 6-8 inches below the soil surface. The soil surface must be covered with polyethylene film immediately after treatment with simultaneous film laying equipment or by sealing with a roller or cultipacker and covered within 20 minutes with polyethylene film or other suitable cover. Consult dosage rate table for proper rates of application and exposure periods. At the end of the exposure period, remove tarpaulins and aerate for two weeks before introducing transplants or vegetative plant parts. Crop seeds may be planted after 96 hours following end of exposure period.

2. Row or Bed Application. Apply the broadcast rate to the area actually treated, i.e., the area delimited by the film mulch. Consult the dosage rate table for treatment rates.

Use one or more shanks per bed spaced not more than 12 inches apart, depending on the area to be treated. Inject the fumigant 6 to 8 inches below the surface of the bed and simultaneously cover with polyethylene film or other suitable cover. At the end of the exposure period, remove tarpaulins and aerate for two weeks before introducing transplants, or vegetative plant parts. Crop seeds may be planted after 96 hours following the end of exposure period. Where polyethylene film is to be utilized as a mulch, aeration is accomplished by making holes in the film on spacings appropriate for the crop to be planted.

B. Special Instructions for Florida Citrus. Preplant or replant fumigation of citrus soil for control of Phytophthora and citrus nematodes in Florida sandy soils. Trees which are planted in this treated soil will not bear harvestable fruit for a period of at least 24 months. Apply with chisels spaced 12 inches apart to a depth of 6 to 8 inches and seal immediately with 4 mil polyethylene film. Apply Terr-O-Gas 67 at the rate of 1 1/2 to 2 pounds per 100 square feet. Expose to fumigation for 96 hours. This treatment will control disease to a depth of 4 feet. Remove cover and aerate for two weeks before setting transplants in treated soil.

C. Special Instructions for Greenhouse Soil Fumigation. The use of methyl bromide and chloropicrin in confined spaces presents a potential hazard to humans and plant life. Special precautions must be taken in order that these potential hazards be minimized. It is the responsibility of the individual supervising the fumigation operation to see that all safety precautions are strictly observed. Before the fumigation operation commences, the supervisor of the fumigation job shall have conducted proper training of all personnel involved in the fumigation (includes use of safety equipment), removed all persons from the area not directly involved in the fumigation, and inspected the equipment to ensure proper application.

Two persons trained in the use of this product must be present during ~~the application of fumigant and the aeration procedures.~~ In the concentration of methyl bromide and/or chloropicrin in the worker area, as measured by a pump and appropriate detector tubes, does not exceed 5 ppm (methyl bromide) or 0.1 ppm (chloropicrin), no respiratory protection is required. If these concentrations are exceeded at any time, all persons in the fumigation area must wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator or evacuate the area.

Application of Terr-O-Gas 67 to greenhouse soils is by the same methods as for field soils (see Sections A.1. and A.2. above). Consult dosage rate table for proper rates of application and exposure periods. If a wind is blowing, all injection should be made upwind from a previous injection site. Immediately after injection of the fumigant and tarping, a qualified person, wearing respiratory protective equipment, should monitor the tarped area with a halide detector. If excessive leaks are found, seal the source of the leak immediately.

Revised to " introduction of the fumigant, initiation of aeration, and after aeration when testing for leaktight. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated) "

During this operation, all windows and doors should be open and fans operating to maximize ventilation. The greenhouse must be placarded on all entrances to the fumigated area with signs bearing, in English and Spanish:

1. The signal word DANGER/PELIGRO and the skull and crossbones symbol.
2. The statement, "Area under fumigation, DO NOT ENTER/ NO ENTRE".
3. The date of fumigation.
4. Name of the fumigant used (.i.e., Terr-O-Gas 67).
5. Name, address, and telephone number of the applicator.

Revise to "protective clothing and"

Aeration and Reentry. After fumigation, treated areas must be aerated until the level of methyl bromide is below 5 ppm and chloropicrin is below 0.1 ppm. Do not allow entry into the treated area by any person before this time, unless ~~provided with~~ a respiratory protection device (NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator). Only a certified applicator or someone under his/her supervision, may remove placards.

Add. "is worn".

Refer to the attached amendment,

TERR-O-GAS 67

<u>Treatment Site</u>	<u>Rate^a & Method^b</u>	<u>Exposure Time</u>
<u>Field Soils to be Planted to:</u>		
Asparagus, broccoli, cauliflower, eggplants, lettuce, muskmelons, onions (dry bulb), peppers, pineapples, strawberries, tomatoes	270-360 lb/A	24-48 hr.
Florida Citrus ^c	1.5-2.0 lb/100 ft ²	96 hr.
<u>Nursery and Greenhouse Soils, Seed and Transplant Beds and Turf:</u>		
Non-food crops	270-650 lb/A	24-48 hr.
Tobacco	1.5 lb/100 ft ²	24-48 hr.
Tomato (Greenhouse Crop)	270-360 lb/A	24-48 hr.

^a Use higher rates indicated for muck and heavy clay soils.

^b Method of application is by injection with chisels plus covered with tarpaulin.

^c May not bear harvestable fruit within 24 months.



STATEMENT OF WARRANTY AND LIABILITY

Seller warrants that this product complies with the specifications expressed in this label. SELLER MAKES NO OTHER WARRANTIES; AND DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE INTENDED PURPOSE. Seller's liability for default, breach, or failure under this label shall be limited to the amount of the purchase price. Seller shall have no liability for consequential damages.

Many pesticidal chemicals are poisonous and may leave a toxic residue on the plants to which they are applied. The U.S. Environmental Protection Agency has established maximum amounts of such pesticidal chemicals that may remain on raw agricultural products at harvest, and it is the user's responsibility to see that there is no residue on such crops at harvest in excess of these amounts. The "Directions for Use" are based on the best available information, and if followed carefully should not leave excessive residues at harvest. However, Great Lakes Chemical Corporation assumes no responsibility as to their accuracy nor for any loss due to excessive residues.



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DUE TO ACUTE TOXICITY**
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covered by the Certified Applicator's certification.

TERR-O-GAS

PREPLANT SOIL FUMIGANT

ACTIVE INGREDIENTS:
Methyl bromide
Chloropicrin

This product weighs 14.2 pounds per gallon. TOTAL
**KEEP OUT OF REACH OF CHILDREN
POISON
DANGER
PELIGRO**

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido traducida.
Statement of Practical Treatment:
In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency room.
IF INHALED: Remove exposed person from contaminated area. Keep warm. Make sure person is breathing. Give artificial respiration. Do not give anything by mouth to an unconscious person.

This product weighs 14.2 pounds per gallon.

KEEP OUT OF REACH OF CHILDREN POISON DANGER PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada completamente.
Statement of Practical Treatment

In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

IF INHALED: Remove exposed person from contaminated area. Keep warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration. Do not give anything by mouth to an unconscious person. If not unconscious, rinse mouth out with water.

IF ON SKIN: Immediately remove contaminated clothing and any other items. Wash contaminated areas thoroughly.



Great Lakes Chemical Corporation

TOTAL 100%

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Keep out of streams and ponds. Do not contaminate water by washing in ditches or storm drains.

Spill: Avoid contact with skin. Wash immediately with soap and water. Avoid contact with eyes. If contact occurs, flush eyes with water for 15 minutes. If contact occurs with clothing, remove contaminated clothing and wash immediately.

Contaminated water in the water column of the lake should be reported to the National Response Center at 1-800-424-9303. The Regional Office of the agency is listed below.

PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Do not use if container is damaged. Do not use if contents are leaking. Do not use if contents are solid. Do not use if contents are liquid. Do not use if contents are gas.

DIRECTIONS FOR USE

This is a solution of a solid. Use this product in a manner consistent with its labeling. This fungicide is a highly toxic material and should be used only by trained and experienced personnel. Follow all directions and precautions on the label.

STORAGE, HANDLING, AND DISPOSAL

Storage and Handling: Store in a well-ventilated area. Do not store in a plastic storage area. Do not store in a metal storage area. Do not store in a wooden storage area. Do not store in a concrete storage area. Do not store in a brick storage area.

Disposal: Dispose of this product in accordance with the applicable regulations. Do not dispose of this product in the environment. Do not dispose of this product in a water body. Do not dispose of this product in a land body.

ATTENTION: Read the entire label before using this product. Do not use if contents are leaking. Do not use if contents are solid. Do not use if contents are liquid. Do not use if contents are gas.

Use: Use this product in accordance with the applicable regulations. Do not use in a residential area. Do not use in a school area. Do not use in a public area.

First Aid: If inhaled, get fresh air immediately. If on skin, wash immediately with soap and water. If in eyes, flush immediately with water for 15 minutes.

Spill: Avoid contact with skin. Wash immediately with soap and water. Avoid contact with eyes. If contact occurs, flush eyes with water for 15 minutes.

Environmental Hazards: This product is toxic to fish and wildlife. Keep out of streams and ponds. Do not contaminate water by washing in ditches or storm drains.

Physical and Chemical Hazards: Contents under pressure. Do not use if container is damaged. Do not use if contents are leaking. Do not use if contents are solid. Do not use if contents are liquid. Do not use if contents are gas.

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Storage, Handling, and Disposal: Store in a well-ventilated area. Do not store in a plastic storage area. Do not store in a metal storage area. Do not store in a wooden storage area. Do not store in a concrete storage area. Do not store in a brick storage area.

Special Instructions for Greenhouse Soil Fungicide: The use of methyl bromide and other fumigants presents a potential hazard to humans and plants. Do not use in a residential area. Do not use in a school area. Do not use in a public area.

Use: Use this product in accordance with the applicable regulations. Do not use in a residential area. Do not use in a school area. Do not use in a public area.

First Aid: If inhaled, get fresh air immediately. If on skin, wash immediately with soap and water. If in eyes, flush immediately with water for 15 minutes.

Spill: Avoid contact with skin. Wash immediately with soap and water. Avoid contact with eyes. If contact occurs, flush eyes with water for 15 minutes.

Environmental Hazards: This product is toxic to fish and wildlife. Keep out of streams and ponds. Do not contaminate water by washing in ditches or storm drains.

Physical and Chemical Hazards: Contents under pressure. Do not use if container is damaged. Do not use if contents are leaking. Do not use if contents are solid. Do not use if contents are liquid. Do not use if contents are gas.

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Storage, Handling, and Disposal: Store in a well-ventilated area. Do not store in a plastic storage area. Do not store in a metal storage area. Do not store in a wooden storage area. Do not store in a concrete storage area. Do not store in a brick storage area.

Treatment Site	Treatment Method	Exposure Time
Field
Greenhouse
...

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 overexposures 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.

PROTECTIVE CLOTHING. Methyl bromide may be trapped inside clothing and cause skin injury. Wear loose, long trousers and long-sleeved clothing and socks that are cleaned after each wearing. Do not wear jewelry, gloves or other gas confining apparel. If full-face respiratory protection is not required, wear full face shield for eye protection when handling liquid. Do not reuse contaminated clothing until thoroughly cleaned and shoes until aerated.

RESPIRATORY PROTECTION. Respiratory protection equipment is required when using Terr-O-Gas 33 for certain applications. Refer to the Directions for Use for complete instructions on the requirements for respiratory protective equipment.

Add: " After application immediately remove clothing, shoes and socks " and
"Drenched clothing cannot be adequately decontaminated "

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✓ Reviser per 3(C) on page 22 of the Methyl Bromide Registration Standard.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

(Add: "immediately stop tractor and motor.")

SPILL AND LEAK PROCEDURES. In case of a rupture of hose or fitting while applying fumigant, immediately evacuate area of spill or leak. Use a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator for entry into affected area to correct problem. Approach from upwind to make necessary repairs. Do not reenter area without respiratory protection until a spill has evaporated or a leak has been repaired, and the methyl bromide concentration is determined to be less than 5 ppm and the chloropicrin concentration is determined to be less than 0.1 ppm. In case of a leaking container, remove to an isolated area and discharge contents under a polyethylene sheeting of 4 mil or greater thickness onto the soil surface in accordance with instructions under Soil Fumigation 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 pounds is exceeded.

PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. In fires fueled by other materials, Terr-O-Gas 33 may liberate hazardous gases. The use of Terr-O-Gas 33 with aluminum, magnesium, zinc and alkali metals will result in the liberation of toxic gases, and possible fire and explosion. In addition, severe corrosion of containers and equipment made of these metals will occur.

DIRECTIONS FOR USE

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

→ Add the statements under 4 (g) on page 22 of the Standard.

STORAGE, HANDLING, AND DISPOSAL

Storage and Handling. Store in a locked, dry, cool, well-ventilated area. 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. Containers 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 reuse. Replace safety cap and valve protection bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap on to valve outlet, and replace protection bonnet before returning to shipper. Only the registrant, or his designee, is authorized to refill cylinders. Do not use cylinders for any other purpose.

Disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal law. If these wastes can not 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 of guidance. Return empty cylinders freight collect to the Great Lakes Chemical Corporation location from which shipment was made. Return partial cylinders only after consulting Great Lakes Chemical Corporation for proper shipping instructions. In either case, use delivering carrier when possible.

SOIL FUMIGATION DIRECTIONS. Terr-O-Gas 33 may be used only for soil fumigation. The following precautionary procedures must be followed.

PRECAUTIONARY STATEMENTS. The following precautions must be followed PRIOR to soil fumigation.

- A) Comply with all local regulations and ordinances. Obtain an application permit from agricultural regulatory agencies as required.
- B) Never fumigate alone. It is imperative to always have an assistant present and proper protective equipment available in case of accidents.
- C) Persons in charge of all operations must advise other workers of all safety precautions and procedures. In addition, they must instruct their helpers in the mechanical operation of the equipment.
statements omitted - see page 15 of the Terr-O-Gas 33 Bulletin
- D) Check fumigant delivery system for leaks before beginning operation.
- E) 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 available on the tractor, at least 5 gallons of additional water must be available from the service truck. This water must be potable and in containers marked "Decontamination water, not to be used for drinking."

The following precautions must be followed DURING the soil fumigation operation.

- A) Two trained persons must be present during introduction of the fumigant.
- B) Do not make application of this fumigant when there is little or no air movement or there is an atmospheric inversion.
- C) Do not lift injection shanks to turn at the end of a pass until fumigant has been purged or drained from system following closure of shutoff valve.
- D) If trash is inadvertently pulled up by the shanks when fumigating, it must be covered with polyethylene film.
- E) When changing the cylinders, be certain they are turned off and fumigant system is not under pressure.

The following precautions must be followed AFTER soil fumigation.

- A) Post all treated areas with warning signs until aeration is complete.
- B) Two trained persons must be present during removal of the tarpaulin, if used.
- C) Keep all animals and unauthorized people away from area during removal of tarpaulin, if used.

APPLICATION METHODS. Terr-O-Gas 33 is to be used only as a preplant soil fumigant.

A. Tarpaulin Methods for Field, Nursery, Turf, Greenhouse, And Seed or Transplant Bed Soils.

Pests controlled when present in soil at time of treatment:

Plant-parasitic nematodes, including root-knot, root lesion (meadow), cyst, citrus, burrowing, false root knot, lance, spiral, ring, sting, stubby root, dagger, awl, sheath and stunt (stylet).

Soil-borne disease causing organisms, including the fungi Pythium, Rhizoctonia, Phytophthora, Pyrenochaeta, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism Plasmodiophora.

Weeds, including broadleaf weeds such as broomrape and lambsquarters and grasses such as bermudagrass, annual bluegrass, torpedograss and quackgrass. Not effective against hard seed weeds, such as mallow, dodder, morningglory, and certain leguminous weeds.

Insects, including wireworms, cutworms, grubs, rootworms, ants, and garden symphylans.

NOTE: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. Accumulation of ammonium is most likely to occur when maximum rates of fumigant and fertilizer are applied to soils that are acidic, wet, cold, or high in organic matter. Apply only fertilizer containing at least 30% nitrate until the crop is well established and soil temperature is above 65°F., then fertilize as indicated by soil test. Acid soils should be limed before fumigation to stimulate nitrification and to reduce possible ammonium toxicity.

Pretreatment Soil Preparation. Plow, or rip or otherwise till the soil to the depth to which effective treatment is required. The soil should be worked until free of clods or large lumps. Residue from previous crops should be worked into the soil to allow for decomposition prior to fumigation. Soil moisture should be adequate for seed germination. Coarse textured soils can be fumigated with higher moisture content than fine textured soils. For best results, soil should be kept moist for at least four days prior to treatment. Do not fumigate if the soil temperature is below 50°F. For best results, fumigate when soil temperature is 60°F. to 80°F. at the depth of 6 inches.

1. Overall Application. Inject Terr-O-Gas 33 with a chisel type applicator having the chisels spaced no more than 12 inches apart and injecting the fumigant to a depth of 6-8 inches below the soil surface. The soil surface must be covered with polyethylene film immediately after treatment with simultaneous film laying equipment or by sealing with a roller or cultipacker and covered within 20 minutes with polyethylene film or other suitable cover. Consult dosage rate table for proper rates of application and exposure periods. At the end of the exposure period, remove tarpaulins and aerate for two weeks before introducing transplants or vegetative plant parts. Crop seeds may be planted after 96 hours following end of exposure period.

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2. Row or Bed Application. Apply the broadcast rate to the area actually treated, i.e., the area delimited by the film mulch. Consult the dosage rate table for treatment rates.

Use one or more shanks per bed spaced not more than 12 inches apart, depending on the area to be treated. Inject the fumigant 6 to 8 inches below the surface of the bed and simultaneously cover with polyethylene film or other suitable cover. At the end of the exposure period, remove tarpaulins and aerate for two weeks before introducing transplants, or vegetative plant parts. Crop seeds may be planted after 96 hours following the end of exposure period. Where polyethylene film is to be utilized as a mulch, aeration is accomplished by making holes in the film on spacings appropriate for the crop to be planted.

B. Special Instructions for Florida Citrus. Preplant or replant fumigation of citrus soil for control of Phytophthora and citrus nematodes in Florida sandy soils. Trees which are planted in this treated soil will not bear harvestable fruit for a period of at least 24 months. Apply with chisels spaced 12 inches apart to a depth of 6 to 8 inches and seal immediately with 4 mil polyethylene film. Apply Terr-O-Gas 33 at the rate of 3 pounds per 100 square feet. Expose to fumigation for 96 hours. This treatment will control disease to a depth of 4 feet. Remove cover and aerate for two weeks before setting transplants in treated soil.

C. Special Instructions for Greenhouse Soil Fumigation. The use of methyl bromide and chloropicrin in confined spaces presents a potential hazard to humans and plant life. Special precautions must be taken in order that these potential hazards be minimized. It is the responsibility of the individual supervising the fumigation operation to see that all safety precautions are strictly observed. Before the fumigation operation commences, the supervisor of the fumigation job shall have conducted proper training of all personnel involved in the fumigation (includes use of safety equipment), removed all persons from the area not directly involved in the fumigation, and inspected the equipment to ensure proper application.

(Two persons trained in the use of this product must be present during ~~the application of fumigant and the aeration procedures.~~ In the concentration of methyl bromide and/or chloropicrin in the worker area, as measured by a pump and appropriate detector tubes, does not exceed 5 ppm (methyl bromide) or 0.1 ppm (chloropicrin), no respiratory protection is required. If these concentrations are exceeded at any time, all persons in the fumigation area must wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator or evacuate the area.

Application of Terr-O-Gas 33 to greenhouse soils is by the same methods as for field soils (see Sections A.1. and A.2. above). Consult dosage rate table for proper rates of application and exposure periods. If a wind is blowing, all injection should be made upwind from a previous injection site. Immediately after injection of the fumigant and tarping, a qualified person, wearing respiratory protective equipment, should monitor the tarped area with a halide detector. If excessive leaks are found, seal the source of the leak immediately.

Reserve to introduction of the fumigant, initiation of aeration, and after per se when testing for reentry. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated)

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During this operation, all windows and doors should be open and fans operating to maximize ventilation. The greenhouse must be placarded on all entrances to the fumigated area with signs bearing, in English and Spanish:

1. The signal word DANGER/PELIGRO and the skull and crossbones symbol.
2. The statement, "Area under fumigation, DO NOT ENTER, NO ENTRE".
3. The date of fumigation.
4. Name of the fumigant used (i.e., Terr-O-Gas 33).
5. Name, address, and telephone number of the applicator.

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Aeration and Reentry. After fumigation, treated areas must be aerated until the level of methyl bromide is below 5 ppm and chloropicrin is below 0.1 ppm. Do not allow entry into the treated area by any person before this time, unless ~~provided with~~ a respiratory protection device (NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator). Only a certified applicator or someone under his/her supervision, may remove placards.

Refer to the attached document.

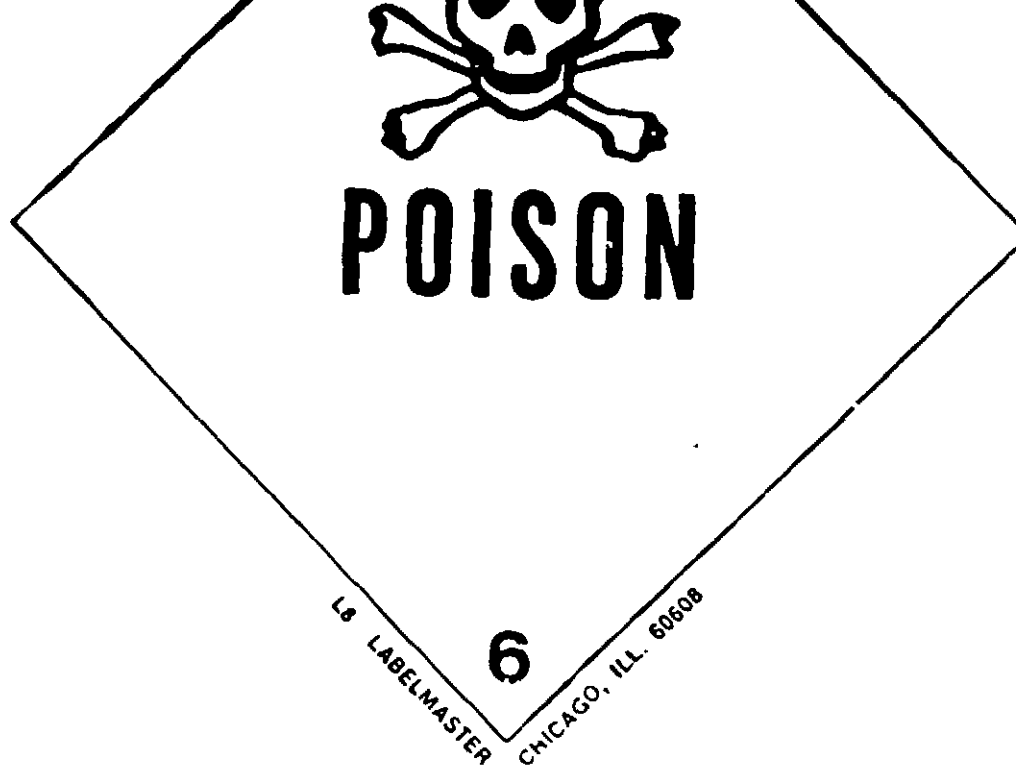
TERR-O-GAS 33

<u>Treatment Site</u>	<u>Rate^a & Method^b</u>	<u>Exposure Time</u>
<u>Field Soils to be Planted to:</u>		
Asparagus, broccoli, cauliflower, eggplants, lettuce, muskmelons, onions (dry bulb), peppers, pineapples, strawberries, tomatoes	450-725 lb/A	24-48 hr.
Florida Citrus ^c	3 lb/100 ft ²	96 hr.
<u>Nursery and Greenhouse Soils, Seed and Transplant Beds and Turf:</u>		
Non-food crops	450-1320 lb/A	24-48 hr.
Tobacco	3 lb/100 ft ²	24-48 hr.
Tomato (Greenhouse Crop)	450-725 lb/A	24-48 hr.

^a Use higher rates indicated for muck and heavy clay soils.

^b Method of application is by injection with disks plus covered with tarpaulin.

^c May not bear harvestable fruit within 24 months.



STATEMENT OF WARRANTY AND LIABILITY

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Many pesticidal chemicals are poisonous and may leave a toxic residue on the plants to which they are applied. The U.S. Environmental Protection Agency has established maximum amounts of such pesticidal chemicals that may remain on raw agricultural products at harvest, and it is the user's responsibility to see that there is no residue on such crops at harvest in excess of these amounts. The "Directions for Use" are based on the best available information, and if followed carefully should not leave excessive residues at harvest. However, Great Lakes Chemical Corporation assumes no responsibility as to their accuracy nor for any loss due to excessive residues.