

**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.

PM32
5785-40
P52-73

TERR-O-GAS[®] 75

PREPLANT SOIL FUMIGANT

ACTIVE INGREDIENTS:

	By Wt.
Methyl bromide	75%
Chloropicrin	25%
TOTAL	100%

This product weighs 14.3 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 ampliamente.
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, 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



Great Lakes
Chemical Corporation

2/14/77

ENVIRONMENTAL HAZARDS

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

SPILL AND LEAK PROCEDURES In case of a rupture or spill or leaking while applying fumigant, immediately stop tractor and motor, immediately evacuate area of spill or leak, use a MOSH/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 remove 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 outside 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 in store near heat or open flame. In fire, fumigant by other materials. Tera Q Gas 75 may become hazardous gases. The use of Tera Q Gas 75 with aluminum, magnesium, zinc and other metals will result in the liberation of toxic gases and possible fire and explosion. In addition, toxic carbonyl compounds 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. 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 other precautions and directions.

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

STORAGE, HANDLING, AND DISPOSAL

Storage and Handling: Store in a secured, dry, cool, well-ventilated area. Do not use 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, ropes, bands 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 cap and safety cap until immediately before use. Replace safety cap and valve protection cap when cylinder is not in use. When cylinder is empty, close valve, screw safety cap on so valve outlet and replace protection cap before returning to shop. 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 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. 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 decontamination carrier when possible.

SOIL FUMIGATION DIRECTIONS: Tera Q Gas 75 may be used only for soil fumigation. The following precautionary procedures must be followed.

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

- Comply with all local regulations and ordinances. Obtain an application permit from agricultural regulatory agencies as required.
- Handle fumigant alone. It is imperative to always have an assistant present and proper respiratory equipment and detection device.
- 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.
- Handle this fumigant in the open, with the operator, upwind, from the container where there is good ventilation.
- Check fumigant delivery system for leaks before beginning operation. Two trained 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 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.
- As trash should be cleaned from the field before starting fumigation.

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

- Two trained persons must be present during introduction of the fumigant.

- Do not make application of this fumigant when there is little or no air movement or when it is an atmospheric inversion.
- Do not let injection hoses lie back at the end of a pass until fumigant has been purged or cleaned from system following closure of shut-off valve.
- Do not immediately pull up by the chains when fumigating. It must be covered by a polyethylene film.
- When changing the cylinders, be certain they are turned off and fumigant system is under pressure.

The following instructions must be followed **AFTER** soil fumigation.

- Do not treat areas with warning signs until application is complete.
- Do not allow persons must be present during removal of the tarpaulin. If used.
- Do not allow animals and unauthorized people away from area during removal of the tarpaulin.

APPLICATION METHODS: Tera Q Gas 75 is to be used only as a preplant soil fumigant. A. Two Methods for Field Nursery, Turf, Greenhouse, and Seed or Transplant Soil.

Pre-Plant: Fumigation when present in soil at time of treatment.

Plant: Fumigation, including root and root system (rhizome), cyst, citrus, root rot, etc. Fumigation must be applied using a fogging machine, fogger, or other device.

Seed-borne: Fumigation, including the fungi, Pythium, Rhizoctonia, Phytophthora, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism, Plasmodiophora.

Weeds: Fumigation, including weeds such as broadleaf and umbellifers and grasses, sedges, annual bluegrass, ryegrass and quackgrass. Not effective on broad weeds such as mallow, dodder, morningglory and certain leguminous weeds.

Insects: Fumigation, including wireworms, cutworms, grubs, rootworms, ants and garden symphyla.

Notes: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. At times, if ammonium is applied to soil, it will be lost when maximum rates of fumigant are used.

Pre-Plant: Fumigation when present in soil at time of treatment.

Plant: Fumigation, including root and root system (rhizome), cyst, citrus, root rot, etc. Fumigation must be applied using a fogging machine, fogger, or other device.

Seed-borne: Fumigation, including the fungi, Pythium, Rhizoctonia, Phytophthora, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism, Plasmodiophora.

Weeds: Fumigation, including weeds such as broadleaf and umbellifers and grasses, sedges, annual bluegrass, ryegrass and quackgrass. Not effective on broad weeds such as mallow, dodder, morningglory and certain leguminous weeds.

Insects: Fumigation, including wireworms, cutworms, grubs, rootworms, ants and garden symphyla.

Notes: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. At times, if ammonium is applied to soil, it will be lost when maximum rates of fumigant are used.

Pre-Plant: Fumigation when present in soil at time of treatment.

Plant: Fumigation, including root and root system (rhizome), cyst, citrus, root rot, etc. Fumigation must be applied using a fogging machine, fogger, or other device.

Seed-borne: Fumigation, including the fungi, Pythium, Rhizoctonia, Phytophthora, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism, Plasmodiophora.

Weeds: Fumigation, including weeds such as broadleaf and umbellifers and grasses, sedges, annual bluegrass, ryegrass and quackgrass. Not effective on broad weeds such as mallow, dodder, morningglory and certain leguminous weeds.

Insects: Fumigation, including wireworms, cutworms, grubs, rootworms, ants and garden symphyla.

Notes: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. At times, if ammonium is applied to soil, it will be lost when maximum rates of fumigant are used.

Pre-Plant: Fumigation when present in soil at time of treatment.

Plant: Fumigation, including root and root system (rhizome), cyst, citrus, root rot, etc. Fumigation must be applied using a fogging machine, fogger, or other device.

Seed-borne: Fumigation, including the fungi, Pythium, Rhizoctonia, Phytophthora, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism, Plasmodiophora.

Weeds: Fumigation, including weeds such as broadleaf and umbellifers and grasses, sedges, annual bluegrass, ryegrass and quackgrass. Not effective on broad weeds such as mallow, dodder, morningglory and certain leguminous weeds.

Insects: Fumigation, including wireworms, cutworms, grubs, rootworms, ants and garden symphyla.

Notes: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. At times, if ammonium is applied to soil, it will be lost when maximum rates of fumigant are used.

Pre-Plant: Fumigation when present in soil at time of treatment.

Plant: Fumigation, including root and root system (rhizome), cyst, citrus, root rot, etc. Fumigation must be applied using a fogging machine, fogger, or other device.

Seed-borne: Fumigation, including the fungi, Pythium, Rhizoctonia, Phytophthora, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism, Plasmodiophora.

Weeds: Fumigation, including weeds such as broadleaf and umbellifers and grasses, sedges, annual bluegrass, ryegrass and quackgrass. Not effective on broad weeds such as mallow, dodder, morningglory and certain leguminous weeds.

Insects: Fumigation, including wireworms, cutworms, grubs, rootworms, ants and garden symphyla.

Notes: Fumigation may temporarily reduce nitrification in the soil thus increasing levels of ammonium nitrogen and soluble ammonium salts to potentially phytotoxic levels. At times, if ammonium is applied to soil, it will be lost when maximum rates of fumigant are used.

Pre-Plant: Fumigation when present in soil at time of treatment.

Plant: Fumigation, including root and root system (rhizome), cyst, citrus, root rot, etc. Fumigation must be applied using a fogging machine, fogger, or other device.

Seed-borne: Fumigation, including the fungi, Pythium, Rhizoctonia, Phytophthora, Sclerotinia, Sclerotium, and Fusarium and the clubroot organism, Plasmodiophora.

Weeds: Fumigation, including weeds such as broadleaf and umbellifers and grasses, sedges, annual bluegrass, ryegrass and quackgrass. Not effective on broad weeds such as mallow, dodder, morningglory and certain leguminous weeds.

9. Rate or final application. Apply the broadcast rate to the area actually treated, i.e., the area determined by the tank mouth. Consult the dosage rate table for treatment rates. Use one or more passes per bed spaced not more than 12 inches apart, depending on the area to be treated. Inject the fumigant 6-8 inches below the surface of the bed or soil. Immediately 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 in vegetable plant parts. Crop seeds may be planted after 96 hours following the end exposure period. When 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.

10. Special instructions for Florida Citrus. Prepare or replace fumigation of citrus grove for control of Phytophthora and other nematodes in Florida sandy soils. Treat orchard in this treated soil not bear harvestable fruit for a period of at least 24 months. Apply with chains spaced 12 inches apart to a depth of 6-8 inches and soil surface with a 4 mil polyethylene film. Apply Tera Q Gas 75 at the rate of 1.5 pounds per 100 square feet. Expose to fumigation for 96 hours. This treatment will control diseases to a depth of 4 feet. Remove cover and aerate for two weeks before setting transplants. Harvest fruit.

11. Special instructions for Greenhouse Soil Fumigation. The use of methyl bromide or chloropicrin in enclosed spaces presents a potential hazard to humans and plants. Special precautions must be taken in order that there potential hazards be minimized. It is the responsibility of the individual supervising the fumigation operation to see that safety precautions are strictly adhered to. Before the fumigation operation commences, the supervisor of the fumigation must 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 introduction of the fumigant, ventilation of the area, and after action when testing for reentry. Two persons do not need to be present if reentry is conducted remotely (outside the area being fumigated). If the concentration of methyl bromide and/or chloropicrin in the working area is 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 conditions are exceeded at any time, all persons in the fumigation area must wear MOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air supplied/SCBA respirator or equivalent.

Application of Tera Q Gas 75 to greenhouse soils is by the same methods as for field use. 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, an injection should be made upwind from a previous injection site. Immediately after injection of the fumigant and turning qualified person wearing respiratory protective equipment should monitor the largest area with a hazard detector. If excessive leaks are found, seal the source of the leak immediately.

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

- The signal word DANGER/PELIGRO and the skull and crossbones symbol.
- The statement: Area under fumigation. DO NOT ENTER/NO ENTRAR.
- The date of fumigation.
- Name of the fumigant used (i.e., Tera Q Gas 75).
- Name, address and telephone number of the applicator.

Aeration and Reentry: After fumigation, treated areas must be aerated until the soil 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 a respiratory protection device (MOSH/MSHA) approved self-contained breathing apparatus (SCBA) or combination air supplied/SCBA respirator and proper protective clothing is worn. Do not remove placards until the treated area is aerated to below the levels indicated above. When a person is complete, the placards may be removed by a certified applicator or someone under his supervision.

Tera Q-GAS 75

Treatment Site	Rate ^a & Method ^b	Exposure Time
Field Soils to be Planted to		
Apples, peaches, cherries, plums, pears, strawberries, tomatoes, beans, etc.	1.5 lb 100 ft ²	96 hr
Vegetables		
Broccoli and Greenhouse Soils: Seed and Transplant Beds and Turf	240-360 g: A	24-48 hr
Non-Food Crops	1.2 lb 100 ft ² : A	24-48 hr
Turf	240-320 g: A	24-48 hr
Greenhouse Crops		
Use higher rates indicated for much and heavy clay soils.		
Directions of application: 5 by injection with chains or by tarpaulin.		
Do not bear harvestable fruit within 24 months.		



POISON

**INHALATION
HAZARD**

6

**METHYL
BROMIDE
AND MORE THAN
CHLOROPICRIN
MIXTURE,
NA151**

STATEMENT OF WARRANTY AND LIABILITY

Seller warrants that this product conforms 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.

AR-40-1

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
DANGER**

Extremely hazardous liquid and vapor under pressure. Do not breathe. May be fatal or cause serious acute illness or delayed lung or nerve damage. Liquid or vapor can cause serious skin or eye injury which may have permanent effects. Get liquid on skin, in eyes or on clothing.

This product contains chloropicrin which may be irritating to the skin and may cause painful irritation to the eyes, producing watering. Get out of the fumigation area immediately.

NOTE TO PHYSICIAN: Early symptoms of overexposure are dizziness and vomiting, weakness and collapse. Lung edema may develop in exposure accompanied by cardiac irregularities. These effects are the result of repeated overexposures. Can result in blurred vision, staggering gait, loss of balance, with probable recovery after a period of no exposure. Do not test the occurrence, but not the degree of exposure. Treatment is symptomatic.

PROTECTIVE CLOTHING: Methyl bromide may be trapped inside clothing. Wear loose, long trousers and long sleeved clothing and after each wearing. Do not wear jewelry, gloves or other gas containing items. Respiratory protection is not required; wear full-face shield for eye protection. After exposure, immediately remove clothing, shoes and contaminated clothing until thoroughly decontaminated. Decontaminate laundry separately.

RESPIRATORY PROTECTION: Under normal conditions of use, no respiratory protection will be required. Because there is a possibility of a spill or leak, eye procedures must be understood and followed.