

# SOIL FUMIGANT

| ACTIVE INGREDIENTS 100%                                                                                            |      |
|--------------------------------------------------------------------------------------------------------------------|------|
| Chlorinated C <sub>3</sub> hydrocarbons, (1,2 dichloropropane and 1,3 dichloropropane and other related compounds) | 80%  |
| Methyl isothiocyanate                                                                                              | 20%  |
| Total                                                                                                              | 100% |

KEEP OUT OF REACH OF CHILDREN

1 PAILON 3

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

HAZARDOUS VAPOR AND LIQUID. MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN. CAUSES BURNS OF SKIN AND EYES. MAY PRODUCE KIDNEY AND LIVER DAMAGE UPON PROLONGED EXPOSURE.

Do Not Breathe Vapor. Do Not Get in Eyes, On Skin, Or On Clothing. Do Not Take Internally. Use Only With Adequate Ventilation. Wear Eye And Skin Protection Necessary To Prevent Contact When Handling. Wash Thoroughly After Handling And Before Eating Or Smoking.

If protective gear, such as boots or gloves, becomes contaminated, immediately wash with soap and water. Never wear protective gear having the odor of Vapor. Aerate and wash all protective gear thoroughly after use until all odor is gone. Render unusable and dispose of contaminated leather goods, including shoes.

## STATEMENT OF PRACTICAL TREATMENT

IF INHALED: remove to fresh air. If not breathing, give artificial respiration. preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

IF ON SKIN: immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. If water is not immediately available, remove excess chemical from skin with sorbent material such as a towel or dry soil. Then proceed at once to location where water is available and thoroughly wash contaminated

skin with plenty of water. Call a physician.

IF IN EYES: immediately flush eyes with plenty of water or a 5% solution of sodium bicarbonate for at least 15 minutes. Call a physician. Continue treatment with ophthalmic hydro-carbonate ointment.

IF SWALLOWED: immediately induce vomiting by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONS

REGISTERED BY U.S. PAT. NO. 2,201,717



MANUFACTURED FOR  
**NOR-AM.**  
AGRICULTURAL PRODUCTS, INC.  
NAPERVILLE, ILLINOIS 60563

**NET CONTENTS**  
5 GALLONS

4 F.A. REG. NO. 77991

E.P.A. LIST # 0000

## GENERAL INFORMATION

**Di-Trapex SOIL FUNGICIDE** is used as a preplanting treatment in both field and greenhouse soils. It vaporizes and diffuses, helping to control plant parasitic nematodes and harmful fungi causing damping-off, root rot and wilt. When used as directed, it also helps to control a re-morse and symphians. When used as directed, it helps control weeds such as pigweed, dandelion, lambs quarters, bermudagrass, purslane, crabgrass, quackgrass, spurge, fleabane, sedge, chickweed, ragweed, mul-tard, Poo spp., smartweed, wild radish, dodder, yellowed and stunted sorghum.

## PHYSICAL OR CHEMICAL HAZARDS

### FLAMMABLE

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME.  
DO NOT CUT OR WELD CONTAINER. FIRE OR EXPLOSION MAY RESULT EVEN IF CONTAINER IS EMPTY.

## ENVIRONMENTAL HAZARDS

The product is toxic to fish and wildlife. Do not spill or empty into streams, ponds or any other body of water. Do not contaminate water by cleaning of equipment or disposal of waste.

## HANDLING PRECAUTIONS

**Di-Trapex** DO NOT INHALE VAPORS—NIOSH or MESA approved respiratory protection should be worn when liquid soil fumigant is exposed to the atmosphere or when conducting operations which vent to the atmosphere. A NIOSH or MESA approved half faced respirator with chemical warfare gas goggles or full-face respirators shall be used during small spills, repairs, calibrations, transfers, sampling and when working in poorly ventilated areas. When in use, canisters or cartridges shall be replaced daily or sooner if specified by manufacturer or at first sign of odor breakthrough, whichever comes first. NIOSH approved cartridges, such as a WILLSON R21 will be adequate for short-term situations such as those above.

Where very high concentrations of vapors might be expected (such as large spills in poorly ventilated areas) a self-contained or air-supplied respirator should be used.

**Di-Trapex** DO NOT GET ON SKIN—When handling or working with, wear clean body covering including gloves and heavy footwear. Immediately remove contaminated coverings. Aerate and wash all protective clothing and gear thoroughly after use.

There are no protective clothing materials that are completely impervious. Thin layers of polyethylene (minimum 1 mil) give short-term protection and shall be immediately discarded upon contamination. Heavy (3 + mil) polyethylene provides longer term protection. Leather gives no protection. If gear be comes contaminated, immediately wash with soap and water. Never wear protective gear having odor of Di-Trapex. Wash and aerate all protective gear thoroughly after use until all odor is gone.

**Di-Trapex** DO NOT GET IN EYES—Wear eye protection such as chemical warfare gas goggles or full-face respirator when handling.

DO NOT SWALLOW—Do not use the mouth to suction from containers or to blow out clogged lines, nozzles, etc.

## STORAGE, SHIPMENT AND DISPOSAL

**STORAGE**—Store in tightly closed original container in a cool place away from dwellings. Do not allow contamination of seeds, plants, fertilizers, or other pesticide chemicals. Do not contaminate food, feed stuffs, drugs, or domestic water supplies. In outside storage, store drums (make sure that bungs are tightly closed) on sides to avoid accumulation of rain water in top or bottom of recessed areas.

**SHIPMENT**—Do not ship or store with food, feeds, drugs, or clothing.

**DISPOSAL**—Rinse equipment and containers and dispose of wastes, including spills or rinsates, in a landfill approved for pesticides or by burying in non-crop lands away from domestic water supplies. Punch holes in containers before disposal. Dispose of empty containers in approved landfill or bury in safe place. Consult Federal, State or local disposal authorities for approved alternative procedures.

## DO NOT REUSE ORIGINAL CONTAINERS

## IMPORTANT: READ BEFORE PURCHASE OR USE CONDITIONS OF SALE

Purchase or use of this product shall constitute acceptance of the following terms of sale. NOR-AM Agricultural Products, Inc. (NOR-AM) warrants that this product conforms to the chemical description on this label and is reasonably fit for the purposes specified herein. No warranty or representation is made by NOR-AM as to the accuracy of the statements printed on this label. Seller makes no warranty and no representation and NOR-AM makes no further warranty or representation, expressed or implied, including but not limited to any warranty as to MERCHANTABILITY, and no agent of NOR-AM is authorized to do so except in writing, with a specific reference to the foregoing warranty. Since neither Seller nor NOR-AM has any control over the handling, storage, use or conditions of use of this product, Buyer or user assumes all risks and liability arising from handling, storage or use of this product under abnormal conditions or not in strict compliance with the directions and precautionary statements hereon. All claims related to the purchase, handling, storage or use of this product shall be barred unless written notice is given to NOR-AM within 30 days after the loss is discovered. Liability of the Seller or NOR-AM for any damages arising from a breach of this warranty shall be limited to exclude consequential commercial damages.

BEST DOCUMENT AVAILABLE

## Di-TrapeX DIRECTIONS FOR USE:

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

**USE PRECAUTIONS:** As with most soil fumigants, application of Di-TrapeX may temporarily raise the level of ammonia, nitrogen and soluble salts in the soil which may result in plant injury. This is most likely to occur when heavy rates of fertilizer or fumigant are applied to soils that are either cold, wet, acid or high in organic matter. Do not add fertilizers containing ammonia or ammonium salts or undecomposed manure to the soil at or near the time of fumigation. Use only fertilizers containing nitrate until the soil temperature is above 65°F and the crop is well established.

Do not allow liquid or vapors to come in contact with leaves and desirable plants. Do not apply on areas beneath which roots of desirable plants extend.

Do not use in greenhouses which contain living plants.

Do not fumigate if the soil temperature at 3-inch depths is over 90°F.

Avoid recontamination of treated soil. Do not contaminate treated soil with untreated soil. Do not use transplants or seeds which could carry soil borne pests from infested land. Clean equipment carefully before using.

Di-TrapeX may be corrosive under certain conditions. Flush all applicators with fuel oil or kerosene immediately after use. **DO NOT USE WATER.** Do not use containers or equipment of aluminum, magnesium or their alloys. Close containers tightly.

**TIME OF APPLICATION:** Treatment can be made at any time the soil is workable. Fall or winter application is desirable for crops which are planted early in the spring. Soil temperature is active in soils as cold as 35°F except against soil insects.

**PREPARATION OF SOIL FOR OPTIMUM CONTROL WITH Di-TrapeX:** FOLLOW THESE STEPS CAREFULLY: (1) Work crop remains into the soil so that they are well decomposed before treatment. (2) In shrub and tree replant sites remove as much of the root system as possible. (3) Break up all clods and loosen soil thoroughly by cultivation one week before treatment. Deep tillage is recommended, particularly for deep-rooted crops. Always work soil deeper than intended application depth. (4) Keep soil moist from the surface down through the root zone and maintain in this condition for one week before fumigation. **DO NOT FUMIGATE DRY SOILS.**

**APPLICATION:** Use injection type applicators.

Broadcast treatment: Set shanks 6 to 8 apart for band treatment set shanks 8 apart. Inject at a depth of 6 to 8 inches.

Row treatment: Adjust injection chisels to same spacing as planter. Seal the treated strips by bedding or listing. Always inject the fumigation at least 6-8 inches below the final soil (planting) surface. Before planting, remove the tops of the beds, being careful that none of this soil falls over on the fumigated band.

### DOSAGE:

| Pest                                                 | Soil Type    | Overall (Broadcast) Application |                     | Row or Band Application |                    |
|------------------------------------------------------|--------------|---------------------------------|---------------------|-------------------------|--------------------|
|                                                      |              | Per Acre                        | Per 100 sq. ft.     | Per Chisel              | Per 100 Linear Ft. |
| Nematodes                                            | Mineral      | 7-15 gal.                       | 2 1/4-4 1/2 fl. oz. | 40-87 ml.               | 1.4-3.0 fl. oz.    |
| Nematodes                                            | Organic Muck | 10-25 gal.                      | 3-7 1/2 fl. oz.     | 58-146 ml.              | 2.5 fl. oz.        |
| Symptomatic                                          | —            | 10-15 gal.                      | 3-4 1/2 fl. oz.     | —                       | —                  |
| Weeds, fungi, nematodes and soil insects (wireworms) | Mineral      | 25-50 gal.                      | 7 1/2-15 fl. oz.    | 145-290 ml.             | 5-10 fl. oz.       |
| Weeds, fungi, nematodes and soil insects (wireworms) | Organic Muck | 40-80 gal.                      | 11-22 fl. oz.       | 232-348 ml.             | 8-12 fl. oz.       |

1. For best results, use the right dosage, not over 10 fl. oz. at 6-inch depth and cover with a tarp for 4 days.  
2. Di-TrapeX is used in heavy clay soils on a limited basis only. Do not use on heavy clay soils.  
3. To obtain best symmetrical control, remove or reduce other soil fumigants.  
4. For chisel and band application, use the dosage shown in the table. Do not use less than 10 fl. oz. per 100 sq. ft.  
5. Row or band treatment does not give effect on soil insects (wireworms).  
6. Row fumigation may not affect wireworms or nematodes on 100 ft. crops where tillage is severe.

**IMMEDIATELY** after application, drag the soil to remove chisel marks, then firm with a smooth roller. If additional water is required, apply only the amount necessary to wet the soil to a depth of one-half inch. If a tarp seal is used, lower dosages may be effective.

In soils 70°F or higher at 6-inch depth, special attention should be given to sealing the surface of the soil. Tarping gives the best seal.

**FUMIGATION PERIOD:** After application at soil temperatures of 60°F or above, keep soil moist and undisturbed for a minimum of 4 days. 7 days is preferable. Use a shorter fumigation period only if it has been shown effective.

Colder soils require a longer fumigation period. If these conditions occur, allow at least one to three weeks for the fumigation period depending upon the temperature.

In fall or winter application the fumigation period should extend until spring. The soil should be undisturbed during this period.

**AERATION PERIOD:** For soil temperatures above 60°F (at 6-inch depth) aerate the soil at the end of the fumigation period by cultivation, e.g., dragging. Repeated cultivation will aid release of the fumigant and is especially desirable if heavy rains occur during the fumigation period. If soil crusting occurs, it retards aeration and must be broken up. Repeated cultivation may be necessary to prevent soil crusting.

Before until the fumigant has completely escaped from the soil. This is usually accomplished by plowing 1 week between cultivation (end of fumigation period) and planting for each 12 gallons per acre of Di-TrapeX.

For soil temperatures above 60°F (at 6-inch depth), longer aeration periods than those mentioned above will be required. Repeated deep cultivation is especially important when heavy rains or very wet soil accompany low soil temperatures, since these conditions retard aeration.

**DO NOT PLANT WHEN THE ODOR OF THE FUMIGANT IS STILL DETECTABLE.**

**TREATMENT OF ORCHARD TREE REPLACEMENT SITES:** Use Di-TrapeX for control of fungi and nematodes in orchard tree replacement sites. For instructions regarding the use contact NORA-AM for Bulletin entitled "Fumigation of Orchard Tree Replacement Sites."

**DO NOT RE-USE CONTAINER**