

CODE
79



SOILFUME 85

INSECTICIDE - NEMATOCIDE

Net Contents
5 GALLONS

DIRECTIONS FOR USE

Niagara Soilfume 85 is designed for use in pre-planting applications to the soil for the control of nematodes (other than encysted eggs and larvae of the sugar beet nematode, golden nematode and related species), wireworms and garden centipedes in land to be planted to asparagus, broccoli, carrots, cauliflower, cotton, cucumbers, eggplants, floral crops, gladiolus, lettuce, lima beans, melons, nursery crops, okra, parsnips, peppers, summer squash, strawberries, sweet corn, sweet potatoes, tobacco and tomatoes. It is usually applied by overall treatment, but row treatment may be used on cotton, cucumbers, gladiolus, melons, summer squash, tobacco and certain other crops for which this type of treatment is suitable. For best results, annual treatment is usually required.

DOSAGE: For over-all application to control nematodes and wireworms, use 4-1/2 to 6 gallons per acre depending upon the severity of infestation, in loam or sandy soil. In muck soil use 9 gallons per acre. In western irrigated districts where wireworms are the only problem, 3 gallons of Niagara Soilfume 85 per acre is adequate. For nursery crops and seed beds, use 6 gallons per acre. For strawberries, in areas where the plantings are maintained for more than one year, use 9 gallons per acre. For control of garden centipedes, use 6 gallons per acre.

Soil fumigation will not control flea beetle larvae, maggots, and certain other soil-inhabiting insects which cause damage similar to that of wireworms, since they usually are not present at the time the application is made. Consult your State Agricultural Experiment Stations or State Agricultural Extension Service regarding recommendations for the control of these pests.

In row applications for control of nematodes, the amount of Niagara Soilfume 85 used per acre will be reduced, depending upon the row spacing, but should not be less than 2 gallons per acre. In soils containing high root-knot nematode populations and where root lesion or meadow and ectoparasitic nematodes predominate, use 3 gallons per acre in the row. Do not use row treatment for the control of wireworms.

APPLICATION: For best results, crop remains containing root-knot nematode galls should be worked into the soil so that they are decomposed before treatment. Soil should be in good workable seed bed condition, warm (50° F. or above), and with a high moisture content.

Either chisel or plow-sole equipment may be used for over-all application. Applications should be made in uniform streams 10 to 12 inches apart and 6 to 8 inches below the soil surface. Immediately after chisel applications seal in the fumigant by floating or rolling the land to compact the soil. Heavier soils should be harrowed before floating or rolling since it is more difficult to fill in the spacings left by the chisels. After plow applications to either light or heavier soil, disk the land immediately and then float or roll it.

For row application, treated strips should be marked, preferably by bedding or listing, since it is necessary that the crop be planted directly in these strips. The fumigant should be placed at least 12 inches below the top of the bed.

U. S. D. A. Reg. No. 279-480

ACTIVE INGREDIENTS:

Ethylene Dibromide	83.0%
INERT INGREDIENTS	17.0%
	100.0%

1 gallon of NIAGARA SOILFUME 85 contains 12 pounds (approximately 2/3 gallon) of Ethylene Dibromide. U. S. Patents 2,448,265 and 2,473,984



DANGER-POISON

KEEP OUT OF REACH OF CHILDREN

First Aid Treatment

ANTIDOTE: If swallowed. Give a tablespoonful of salt in a glass of warm water and repeat until vomit fluid is clear. Have victim lie down and keep quiet. Call a Physician, IMMEDIATELY!

If on skin. In case of contact, remove contaminated clothing and immediately wash skin with soap and water.

Harmful by inhalation, swallowing or skin contact. Avoid breathing vapor. Do not get in eyes, on skin, or on clothing. In case of contact immediately remove clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; for eyes get medical attention. Wash thoroughly and air shoes thoroughly before re-use.

USAGE CAUTIONS

This product is toxic to fish and wildlife. Keep out of any body of water. Birds feeding in treated areas may be killed. Apply this product only as specified on this label.

Rinse equipment and containers and dispose of wastes by burying at least 18" deep in non-crop lands away from water supplies. Do not re-use container. Smash and bury with wastes. DO NOT BURN.

be allowed to aerate for 10 to 14 days before planting. When more than 4-1/2 gallons per acre have been applied (as an overall application), or when soil temperatures are 40 to 50° F., the soil should be allowed to aerate for 3 weeks before planting. If heavy rainfall occurs between treatment and planting, working the soil during the second week will help aeration. Direct-seeded crops irrigated areas may normally be planted 7 to 8 days after treatment.

PRECAUTIONS

Do not use Soilfume 85 in soil where plants are growing. Before planting in treated soil aerate thoroughly before seedling of transplanting.

To avoid reinfestation of treated soil, do not use transplants, tools or crop remains that could carry soil-borne pests from infested land. Clean applicators carefully before using.

Soilfume 85 is not recommended for extremely heavy soils or land to be planted to onions within two years.

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 fumigants are applied to soils that are either cold, wet, acid, or high in organic matter. To avoid injury to plant roots, fertilize as indicated by soil tests made AFTER FUMIGATION. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use only fertilizers containing nitrates, until after the crop is well established and the soil temperature is above 65° F. Certain crops including cotton, are tolerant to ammonia and the above rule does not apply to them. Lining highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

Do not use containers or handling equipment made of aluminum, magnesium or their alloys. Store on tightly closed containers in a cool place away from dwellings. In outside storage, drums should be stored on their sides. If Niagara Soilfume 85 is subjected to temperatures below 23° F., warm to 50° F. and mix thoroughly before using.

DO NOT ALLOW THIS MATERIAL TO DRIFT ONTO NEIGHBORING CROP OR NON-CROP AREAS OR USE IN A MANNER OR AT A TIME OTHER THAN IN ACCORDANCE WITH LABEL DIRECTIONS BECAUSE ANIMAL, PLANT OR CROP INJURY, ILLEGAL RESIDUES OR OTHER UNDESIRABLE RESULTS MAY OCCUR.

DEALERS SHOULD SELL IN ORIGINAL PACKAGES ONLY.

TERMS OF SALE OR USE: On purchase or use of this product buyer and user agree to the following conditions:

WARRANTY: Niagara warrants that this product, as of the time of sale by Niagara, (1) conforms to the ingredient statement on the label, and (2) is reasonably fit for the purposes set forth in the Directions for Use. EXCEPT AS SO WARRANTED THE PRODUCT IS SOLD AS IS. NIAGARA MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED.

DAMAGES: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include



NIAGARA CHEMICAL DIVISION