

# BACCO FUMIGANT 85

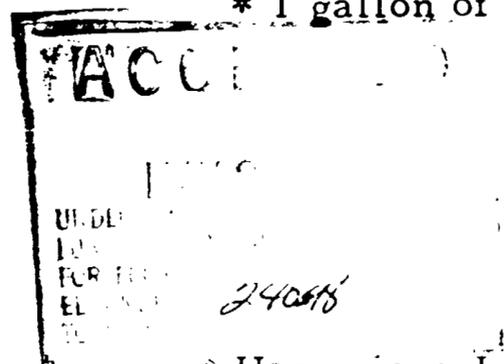
**For Control of Nematodes**

**Contains Ethylene Dibromide**

**ACTIVE INGREDIENTS:**

Ethylene Dibromide*	83%
INERT INGREDIENTS:	17%
<b>Total.</b>	<b>100%</b>

\* 1 gallon of Bacco Fumigant 85 contains 12 pounds of Ethylene Dibromide.



— DANGER —



**POISON**



**KEEP OUT OF REACH OF CHILDREN**

Hazardous Liquid and Vapor. Absorbed Through Skin. May Cause Burns.

**DIRECTIONS**

Bacco Fumigant 85 should be applied as a broadcast, preplanting treatment to control nematodes other than encysted eggs and larvae of the sugar beet nematode, golden nematode, and related species), wireworms, garden centipedes (symphillids), and certain other soil-borne pests in land to be planted to tobacco.

Over-all treatment is recommended, however row treatment may be used. For best results treatment is required on an annual basis. Soil Preparation: Crop remains should be worked into the soil so that they are decomposed before treatment. This facilitates sealing and fumigant penetration.

**APPLICATION:** To control nematodes and certain other soil-borne pests on loam or sandy soil, use 4 1/2 to 6 gallons per acre for broadcast treatment. In muck soils use 9 gallons per acre. Chisels should be set 12 inches apart. For row application use at least 2 gallons per acre. In soils containing high root knot, nematode population is high, where root lesion or meadow nematodes predominate, use 3 gallons per acre. Inject the fumigant into the soil with the following equipment: For broadcast application use a mechanical applicator.

**EXPOSURE PERIOD:** After application and compacting, leave the soil undisturbed for at least 7 to 14 days. Wet soil retards diffusion of the fumigant, and will require a longer exposure period.

**AERATION AND PREPARATION OF SOIL BEFORE PLANTING:** At the end of the exposure period, aerate the soil by plowing or deep cultivation. If heavy rains accompanied by low temperatures occur during the exposure period, working the soil several times is essential for thorough aeration. Aeration is usually complete when the odor of the fumigant is no longer evident. Shallow rooted crops can usually be planted about one week after the end of the exposure period, or when aeration is complete.

**CAUTION:** 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 plant roots, fertilize as recommended by soil test results after fumigation. Do not use manure or nitrogen fertilizer until the soil has been aerated. Fertilizer should be applied after the soil has been aerated.

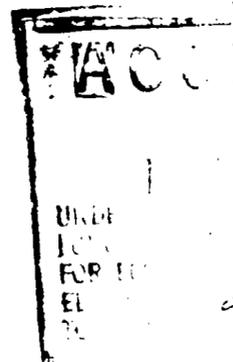
**PRECAUTIONS**

To avoid reinfestation of treated soil, do not use transplants, tools, or crop remains that could carry soil-borne pests from infected land. Clean rig carefully before using. Bacco Fumigant 85 is not recommended for extremely heavy soils. Row treatment is not recommended for control of wireworms. 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 of fumigation. Consult your local agricultural agent for more information on the control of these insects.

Do not store near seeds, plants, fertilizers, or other pesticide chemicals.

Do not use containers, handling or application equipment made of aluminum, magnesium, or their alloys. Store in tightly closed containers in a cool place away from dwellings. In outside storage, store from windward side. If Bacco Fumigant 85 is subjected to temperatures below -10 F., vent to atmosphere and mix the fumigant before using.

\* 1 gallon of Bacco Fumigant 85 contains 12 pounds of Ethylene Dibromide.



24068

— DANGER —



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Over-all treatment is recommended, however row treatment may be used. For best results treatment is required on an annual basis. Soil Preparation: Crop remains should be worked into the soil so that they are decomposed before treatment. This facilitates sealing and fumigant penetration.

**APPLICATION:** To control nematodes and certain other soil-borne pests on loam or sandy soil, use 4½ to 6 gallons per acre for broadcast treatment. In muck soils use 9 gallons per acre. Chisels should be set 12 inches apart. For row application use at least 2 gallons per acre. In soils containing high root knot, nematode populations, and where root lesion or meadow nematodes predominate, use 3 gallons per acre. Inject the fumigant at least 8 inches below the final soil surface. For over-all application, either chisel or plow-sole equipment may be used. For row application, use one chisel per row, or two chisels spaced 12 inches apart. Mark the treated strips by bedding or listing or by tractor-wheel marks, and plant in the middle of the treated areas.

**SEALING:** Compact the soil immediately after application. With chisel application, use a float, roller, cultipacker, or similar device attached to the applicator or to another closely following tractor. After plow-sole application, disk the land, then compact it by floating or rolling. Sealing after row application can be accomplished by the tractor wheel, by listing, or by bedding so that the fumigant will be 12 or 14 inches below the top of the bed. When fumigating listed rows, seal in the fumigant with ring rollers or press sealers.

**EXPOSURE PERIOD:** After application and compacting, leave the soil undisturbed for at least 7 to 14 days. Wet soil retards diffusion of the fumigant, and will require a longer exposure period.

**AERATION AND PREPARATION OF SOIL BEFORE PLANTING:** At the end of the exposure period, aerate the soil by plowing or deep cultivation. If heavy rains accompanied by low temperatures occur during the exposure period, working the soil several times is essential for thorough aeration. Aeration is usually complete when the odor of the fumigant is no longer evident. Shallow-rooted crops can usually be planted about one week after the end of the exposure period, or when aeration is complete.

**CAUTION:** 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 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 50° F. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

U.S. PAT. OFF. REG. MAR. 24 1953

**NOTICE**

Sealing equipment shall be repaired to the manufacturer's label and subject thereto the buyer assumes the risk of any loss or property arising out of or from handling and accepts the product on these conditions.

Manufactured By

**DALY-HERRING CO.**

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Do not store near seeds, plants, fertilizers or other pesticide chemicals.

Do not use containers, handling or application equipment made of aluminum, magnesium, or their alloys. Store in tightly closed containers in a cool place away from dwellings. In outside storage, store drums on their sides. If Bacco Fumigant 85 is subjected to temperatures below 20° F., warm to 50° F. and mix thoroughly before using.

Destroy all containers and equipment used for fumigation and burn them with water.

**WARNING**

Call a Doctor in Case of Accident

Harmful by inhalation, swallowing or skin contact. Avoid breathing vapor.

**FIRST AID:** In case of contact, immediately remove contaminated shoes and clothing and wash skin with soap and water; flush eyes with plenty of water for at least 15 minutes and get medical attention. Do not wear shoes or clothing until absolutely free of all chemical odor.

If illness results from inhalation, remove to fresh air and call a doctor. If swallowed, call a doctor. Induce vomiting by giving an emetic such as 1 tablespoon of table salt in a glass of warm water.