

1842-243  
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# TRIANGLE

## DOWFUME W-40\*

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT ( )  
 EFFECTIVE SOIL FUMIGANT CONTAINING ETHYLENE DIBROMIDE  
 USEFUL IN THE CONTROL OF WIREWORMS, NEMATODES AND ( )

### INGREDIENTS

Active Ingredient: Ethylene Dibromide ..... 41%  
 Inert Ingredient ..... 59%  
 1 gallon of DOWFUME W-40 contains 3.5 pounds of Ethylene Dibromide

Use DOWFUME W-40 fumigant as a preplanting treatment to control nematodes (other than encysted eggs and larvae of the sugar beet nematode, golden nematode, and related species), wireworms, garden centipedes (symphylans), and certain other soil-borne pests in land to be planted to lima beans, broccoli, carrots, cauliflower, corn (sweet), cotton, cucumbers, egg plant, floral crops, gladiolus, lettuce, melons, nursery crops, okra, parsnips, peppers, pineapple, potatoes (sweet), potatoes (white), squash (summer), strawberries, tobacco and tomatoes. It usually is applied as an over-all treatment, but row treatment may be used on cotton, cucumbers, and certain other crops for which this type of treatment is suitable. For best results, annual treatment is required.

### DIRECTIONS FOR APPLICATION AND PLANTING

**WHEN TO TREAT:** Treatments can be made either in spring or fall whenever soil conditions are suitable. In northern states, late summer or early fall treatment (before October 15) is best for land to be planted to early spring crops, especially in muck soils. Early treatment permits planting a fall cover crop.

**SOIL PREPARATION:** To facilitate sealing and fumigant penetration, work crop remains into the soil so that they are decomposed before treatment. Soil should be in good workable seed bed condition, warm (50-95°F.), with adequate moisture for good seed germination. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

**APPLICATION:** For nematode control both overall and row treatments are effective. Use only overall applications for control of wireworms and symphylans (garden centipede). Overall applications may be made with either chisel or plow sole equipment. Row applications should be made with chisels spaced 12 inches apart. Two or more chisels should be used per row depending upon the width of the row to be treated. For row applications, as the distance between the rows increases, the amount of fumigant required per acre decreases. In all cases, inject the fumigant at least 5 to 8 inches below the final soil surface planting level. Mark the treated rows by bedding or listing or by tractor or press wheels, and plant in the center of the treated strips.

**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, thus requiring 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. This is especially desirable in northern areas after fall application in muck soils. 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. For deep-rooted trees and shrubs, the aeration period should be 3 to 6 months.

### DOSAGE AND USE RECOMMENDATIONS

Use as preplant only, except as indicated by footnote (i). Do not exceed maximum dosage per acre in a single year.

Crop or Areas	Pest to be Controlled	Type of Application	Remarks	Gallons Per Acre	Linear ft/pt/chisel	
					Low Rate	High Rate
Row Crops: Beans (lima), broccoli, carrots, cauliflower, corn (sweet), cotton, cucumbers, egg plant, lettuce, melons, okra, parsnips, peppers, potatoes (sweet), squash (summer), strawberries, tobacco, and tomatoes	All nematodes except encysted eggs and larvae of sugar beet, golden and related species	Overall or Row	Loam or Sandy Soil	15.5 to 20.5	353	265
			Muck Soil	31	177	
	Wireworms (a) Symphylans (b) and all nematodes with exceptions above	Overall	Loam or Sandy Soil	15.5 to 20.5(c)	353	265
Potatoes (d) (white)	All nematodes except potato rot and cyst forming species	Overall or Row	Loam or Sandy Soil	15.5 to 20.5	353	265
			Wireworms (a) Symphylans (b) and all nematodes with exceptions above	Overall	Loam or Sandy Soil	15.5 to 20.5
	Potato rot nematodes and wireworms	Overall (e)	Wisconsin and Idaho	14 to 17(f) 6.8 to 8.6(f)	397 795	317 635
Strawberries (g)	Nematodes	Overall or Row	Wherever needed	31	177	
Nursery and Floral Crops, Seedbeds	All nematodes except encysted eggs and larvae of sugar beet, golden and related species	Overall or Row	Wherever needed	20.5		265
Fruit Tree Planting Sites	Nematodes	Overall or Strip	Wherever needed	51		106
Pineapple	Nematodes	Row	Wherever needed	31 to 62(h) 20.5(i)	177	88 265
Peanuts: See Manufacturer's Printed Directions "DOWFUME W-40 Soil Fumigant for Peanuts". Copies may be obtained from your dealer or Triangle Chemical Company.						

**CAUTION: Note Carefully.** Fumigation may temporarily increase the amount of soluble salts in the soil. This is most likely to occur when applied to soils that are either cold, wet, acid, or saline. To avoid nitrate starvation, or both, to crops, avoid using only fertilizers containing nitrates, until after the soil temperature is above 65°F. Certain crops including cotton, sugarcane, and the above rule does not apply to them. Liming increases soil nitrification and reduces the possibility of ammonia loss.

### PRECAUTIONS

To avoid reinfestation of treated soil, do not use it for soil-borne pests from infested land. Clean rig components and equipment recommended for control of wireworms. Soil-borne pests, maggots, and certain other soil-inhabiting insects, since they usually are not present at the time of fumigation, authorities for suggestions for the control of these pests. Do not store near seeds, plants, fertilizers or other materials. Do not use containers, handling or application equipment, their alloys. Store in tightly closed containers in a cool, dry place. Store drums on their sides. If DOWFUME W-40 is warm to 50°F. and mix thoroughly before using.

Decontaminate containers by burying unused fumigant in water supplies. Allow inside of thoroughly drained containers to dry. Destroy container to prevent re-use.

**NOTICE:** Buyer assumes all risks of use, storage and handling in accordance with directions given herewith.



HAZARD  
 ABSORBED THROUGH SKIN  
 KEEP OUT OF REACH OF CHILDREN  
 Do Not Get on Skin, in Eyes, or in Mouth

CALL A DOCTOR  
 IMMEDIATELY IN CASE OF ACCIDENT OR OVEREXPOSURE

**FIRST AID:** In case of contact, immediately remove clothing. Wash skin with soap and water. Flush eyes with plenty of water. Get medical attention. Do not wear shoes or clothing until advised. If illness results from inhalation, remove to fresh air. If swallowed, call a doctor. Induce vomiting by drinking water or table salt in a glass of warm water.

U. S. Patent No. 2,811,100  
 \*Dowfume® W-40 Trademark of Triangle Chemical Company

MANUFACTURED FOR  
**TRIANGLE CHEMICAL COMPANY**

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