

## COMPOSITION

<b>ACTIVE INGREDIENTS:</b>	
1,2-Dibromo-3-chloropropane	83.4%
Other halogenated C. Compounds	2.8%
<b>INERT INGREDIENTS</b>	<b>14.0%</b>
	<b>100.0%</b>

ACCEPTED

OCT 31 1973

UNITED STATES DEPARTMENT OF AGRICULTURE  
FUNCTIONAL INSECTICIDE ACT  
FOR FOOD AND DRUGS  
ED UNDER 547.17 SUBJECT  
TO ATTACHED COMMENTS.

DURHAM NEMATOCIDE SOLUTION 12.1 IS FORMULATED TO BE USED ON MINERAL SOILS ONLY TO CONTROL CYST GOYBEAN, GOLDEN TOBACCO, SUGAR BEET, ROOT KNOT, ROOT-LESION, OR MEADOW, BURROWING, CITRUS, STEM AND BOLD, FREELIVING STING, RING, AXL, SPIRAL, LANCE, PIN, SHEATH, STUBBY ROOT, STYLET, DABBER, AND OTHER PLANT PARASITIC NEMATODES.

## DIRECTIONS

READ ALL LABEL DIRECTIONS BEFORE USING.

Lower dosages should be used in light sandy soil and higher dosages on heavier mineral soils or where deeper penetration is desired. Apply DURHAM NEMATOCIDE SOLUTION 12.1 when soil temperatures at a depth of 10" are between 50° and 85° F. Soil should be in good tilth and contain enough moisture for good seed germination. Use adequate soil injection equipment to give uniform distribution. DO NOT TREAT EXTREMELY WET OR VERY DRY SOILS. TRASH IN THE SOIL SHOULD BE WELL DECOMPOSED BEFORE APPLICATION.

## PREPLANT TREATMENTS

**ROW:** Apply DURHAM NEMATOCIDE SOLUTION 12.1 in rows to be planted at a depth of 6" to 8", taking care to seal the chisel channels with a press wheel. Adjust chisels at same spacing as planter. Do not plant or disturb soil if preplant treatment is used for 7 to 14 days on shallow root crops, and 4 to 8 weeks for deep rooted crops. The dosage per acre for row treatment should be reduced from the overall dosage in proportion to the actual acreage treated. For row applications where two or more chisels are used per row apply at the same rate per chisel as overall.

**OVERALL:** Apply DURHAM NEMATOCIDE SOLUTION 12.1 evenly in rows 12" apart at a depth of 6" to 8", taking care to seal channels with a drag or press wheel. Do not plant or disturb soil if preplant treatment is used for 7 to 14 days on shallow rooted crops, and 4 to 8 weeks for deep rooted crops.

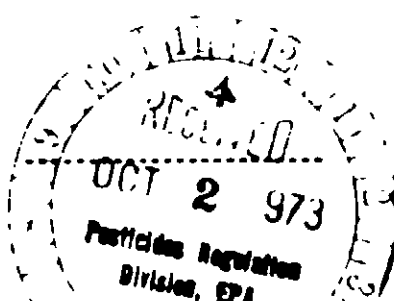
**POSTPLANT TREATMENT OF ANNUALS:** Apply DURHAM NEMATOCIDE SOLUTION 12.1 as suggested in this label as a band or side dressing at least 6" deep, as close to the plant as possible without disturbing the roots. For treatment of trees, be sure to cover area where feeder roots are found.

**NOTICE:** Amvac Chemical Corporation makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material, except those which are contained on Amvac's label.

EPA REG. NO. 5481-88-AA-50824

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NET CONTENTS:



# DURHAM NEMATOCIDE SOLUTION 12.1

(Contains 12.1 lbs. Technical 1,2-Dibromo-3-Chloropropane Per Gallon)

CROP	DOSAGE	
<b>BANANAS</b>	1.5 to 7 gals. per acre	Preplant or at time of planting in rows.
	1.5 to 4 gals. per acre	An initial postplant application.
	1 to 1.4 gals. per acre	Subsequent postplanting treatment not more than one in each 9-12 month period after initial application.
<b>BERRIES:</b> Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries, Strawberries	2 to 7 gals. per acre	Preplanting, at time of planting or postplanting, overall or row application. DO NOT APPLY WITHIN 40 DAYS OF HARVEST.
	.75 to 2 gals. per acre	Preplanting, at time of planting or postplanting, overall or row application. DO NOT APPLY WITHIN 55 DAYS OF HARVEST.
<b>CITRUS:</b>		
Application rate will vary with % clay in soil.	% Clay Per Acre 2%-3% 2.86 gal. 4%-8% 4.29 gal. 9%-15% 5.72 gal. 15%-20% 7.15 gal. above 20% Treatment not recommended	Recommended for application by chisel (See Directions for POSTPLANT TREATMENT OF ANNUALS), Basin and Furrow irrigation (See Directions for APPLICATION IN IRRIGATION WATER). Preplant, at planting or postplanting application to new or established plantings. The dosage per acre for post plant treatment should be reduced from the overall dosage in proportion to the actual area treated. Repeat as necessary for control, but no oftener than once every three years.
<b>DECIDUOUS FRUIT:</b> Apricots, Grapes, Nectarines, Peaches, Cherries, Plums (Prunes)	3 to 7 gals. per acre	Preplanting, at planting or postplanting application to new or established plantings, overall or row application.
	3 to 5 gals. per acre	Preplanting, at planting, or postplanting treatment. Do not exceed 15% fluid ounces per 1000 linear feet. DO NOT APPLY WITHIN 30 DAYS OF HARVEST.
<b>WITHIN 30 DAYS OF HARVEST, OR MORE OFTEN THAN ONCE IN 3 YEARS.</b>		
<b>Figs</b>	5 gals. per acre	Preplanting, at time of planting, or postplanting overall or row application to mineral soils. For preplanting use wait 4-6 weeks before planting. DO NOT APPLY WITHIN 30 DAYS OF HARVEST.
<b>FIELD CROPS</b>		
<b>Cotton</b>	1 to 2 gals. per acre	Preplant, at time of planting or postplanting, overall or row application.
<b>MELONS</b>	2 gals. per acre	Preplant or at time of planting, overall or row application. (Row application use 10.5 fluid ounces per 1000 linear feet.)
<b>NUTS</b>		
<b>English Walnuts</b>	3 to 7 gals. per acre	Preplanting, at time of planting, or postplanting overall or row application to mineral soils. For preplanting wait 4-8 weeks before planting. DO NOT APPLY WITHIN 30 DAYS OF HARVEST.
<b>Almonds</b>	3 to 7 gals. per acre	Preplanting, at planting, or postplanting treatment. Do not exceed 20 fluid ounces per 1000 linear feet. DO NOT APPLY WITHIN 30 DAYS OF HARVEST.
<b>PEANUTS</b>	1.5 to 2 gals. per acre	Preplanting or at time of planting, overall or row application. DO NOT FEED, SELL, OR INTRODUCE INTO COMMERCE HAY OR HULLS TAKEN FROM TREATED SOIL. Forage crops grown on treated soil should not be used as feed for dairy animals or animals being finished for slaughter until 2 years after row treatment or 3 years after overall treatment.
<b>PINEAPPLES</b>	3 to 11 gals. per acre	Preplant or at time of planting application. Inject into soil at 5 to 8 inch depth and at least 6 inches to one side of plant line. Postplant: Inject as above or apply in 0.1 acre inch of water. DO NOT APPLY WITHIN 270 DAYS OF HARVEST AND DO NOT EXCEED 11 GALLONS ON A SINGLE YEAR IN ANY COMBINATION OF TREATMENTS.
<b>SOYBEANS</b>	0.5 to 1.0 gals. per acre (42" row)	Preplanting or at time of planting row application. Use 5.1 to 10.3 fluid ounces per 1,000 linear feet of row. Use a single chisel per row and apply at the flow rate given above per 1000 feet of row per chisel REGARDLESS OF ROW SPACING. The gallons per acre will increase as row spacing decreases and vice-versa. DO NOT GRAZE TREATED AREAS OR FEED HAY TO MEAT OR DAIRY ANIMALS. DO NOT SELL SUCH PLANT PARTS TO ANOTHER PARTY OR OTHERWISE INTRODUCE INTO COMMERCE.
(Southeastern states only including Ala., Ark., Del., Fla., Ga., Ky., La., Md., Miss., N.C., S.C., Va., and the southern third of Ill. and Mo.)		
<b>TURF</b>	3 gals. per acre	Preplant overall treatment.
<b>VEGETABLES</b>		
Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Celery (Field), Cucumbers, Eggplant, Okra, Parsnips, Radishes, Snap Beans, Summer Squash, Turnips	.75 to 1.9 gals. per acre	Preplanting, at time of planting, or postplanting, overall or row application. DO NOT FEED VINES OF BEANS OR CARROT OR PARSNIPS PLANT PARTS TO LIVESTOCK. DO NOT MAKE POST-PLANT TREATMENTS ON CUCUMBERS.
Lettuce, Endive (Escarole)	.75 to 2 gals. per acre	Preplanting, overall or row application.
Tomatoes	1 to 2 gals. per acre	Preplant overall treatment. Wait 7 to 14 days before planting.
Tomatoes—Direct seeded or transplant	½ to 1½ gals. per acre	Row treatment: Preplant at planting or postplanting for direct seeded tomatoes, or preplanting or time of planting for transplants. Set transplants 4 inches from injection furrows. Wait 7 to 14 days before planting on preplanting treatments.
Tomatoes—Transplants	1 gal. per acre	Postplant treatment at least 4 inches from transplants.

## WARNING! KEEP OUT OF REACH OF CHILDREN

SEE ANTIDOTE STATEMENT AND OTHER WARNINGS ON THE SIDE PANEL.

**APPLICATION IN IRRIGATED WATER:** DURHAM NEMATOCIDE SOLUTION 12.1 MAY BE APPLIED BY ADDING TO IRRIGATION WATER DURING IRRIGATION. Meter into a turbulent part of irrigation water. If necessary: A turbulence should be created to insure complete mixing with water. Dosages as indicated for overall treatment for vegetable and floral crops should be used for water application.

**MIXING DIRECTIONS:** DURHAM NEMATOCIDE SOLUTION 12.1 may be used as is or can be further diluted with a solvent such as mineral spirits. NOTE: THIS IS NOT AN EMULSIFIABLE CONCENTRATE—DO NOT ATTEMPT TO DILUTE WITH WATER FOR CHISEL APPLICATION.

## CAUTION

Treatment 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 nematocide are applied to cold, wet, acid or high in organic matter soils. To avoid root injury of ammonia sensitive plants plan your fertilization program based on nitrogen levels in the soil after treatment with nematocide. It is suggested that on ammonia sensitive plants, fertilizers containing ammonium salts not be used until after the crop is well established and the soil temperature is above 65° F.

Certain crops such as cotton and pineapple are tolerant to ammonia and the above does not apply.

Liming highly acid soils before the use of Nematocide may reduce the possibility of ammonia or salt toxicity.

NEMATOCIDE MAY BE USED ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES. DO NOT OVERDOSE. NOT RECOMMENDED ON EXTREMELY HEAVY SOILS OR MUCK SOILS.

## WARNING

**HARMFUL LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. COMBUSTIBLE MIXTURE CAUSES SKIN IRRITATION AND BLISTERS ON PROLONGED CONTACT. CAUSES IRRITATION OF EYES, NOSE AND THROAT. MAY BE ABSORBED THROUGH SKIN.**

Do not breathe vapor. Keep container closed. Do not get in eyes, on skin or on clothing. Do not take internally. Use only in a well-ventilated area. Wash thoroughly with soap and water after handling and before eating and smoking. Do not contaminate feed and feedstuffs. Keep children and pets off treated area until this material has been washed into soil. Keep away from heat and open flame. Keep out of reach of children and animals. In case of contact with clothing, skin, or eyes, 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 2 tablespoonful of table salt in a glass of warm water.

This product is toxic to wildlife. Birds and other wildlife in treated areas may be killed. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

KEEP AWAY FROM HEAT AND OPEN FLAME.

Do not reuse empty drum, return to drum reconditioner or destroy by perforating or crushing or burying in a safe place.

AMVAC CHEMICAL CORP.

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