



17.3% NEMAGON® Soil Fumigant Granules

Contains 17.3 Pounds (1 Gallon) NEMAGON Soil Fumigant per 100

ACTIVE INGREDIENTS	BY WEIGHT
1,2-Dibromo-3-Chloropropane	16.43
Other Halogenated C ₃ Compounds	0.87
INERT INGREDIENTS	82.70
TOTAL	100.00

*Equivalent to 17.3% NEMAGON Soil Fumigant
EPA Registration Number 201-203 AA

CAUTION:

KEEP OUT OF REACH OF CHILDREN.
See other precautions below.

GENERAL DIRECTIONS

Apply 17.3% NEMAGON Soil Fumigant Granules when soil temperature at a depth of 6 to 8 inches is 40 to 80 F. The soil should be in good tilth and contain adequate moisture for good seed germination. Trash in the soil should be well decomposed. Extremely wet or dry soils should not be treated. Application can be made before, during, or after planting according to directions only. Applications should be made only with equipment designed for even distribution at a specified depth in the soil. Use only on crops listed on the label. Certain crops such as onions, garlic, sugar beets, tobacco, and potatoes (sweet and Irish) are sensitive to 17.3% NEMAGON Soil Fumigant Granules and soils on which these crops are to be grown should not be treated during the current growing season. 17.3% NEMAGON Soil Fumigant Granules may be mixed with granular fertilizer before application. Use combination product as soon as possible (within two weeks) after mixing. Do not store near seeds, feed or foodstuff. Apply in accordance with directions for 17.3% NEMAGON Soil Fumigant Granules only. Consult the State Agricultural Extension Service.

Use on mineral soil only. Do not exceed maximum dosage per acre in a single year.

PRE-PLANTING APPLICATION: For best results, apply before each growing season or crop. For satisfactory nematode control, do not disturb the soil after application for 7-14 days for shallow rooted crops and 1-6 weeks for deep rooted crops.

OVER-ALL TREATMENT: Apply NEMAGON Soil Fumigant Granules evenly in rows 12 inches apart at a depth of 6 to 8 inches. Seal the chisel channels IMMEDIATELY with pressure roller or flood with water. Application can be made with a fertilizer spreader or seeder.

ROW TREATMENT: Apply 17.3% NEMAGON Soil Fumigant Granules in the rows to be planted at a depth of 6 to 8 inches below normal soil surface level. Seal the chisel channels IMMEDIATELY with pressure roller or flood with water. Use one to three applicator chisels depending upon width of treated area desired. One chisel will treat a 12 inch strip. Two chisels (spaced 12 inches apart) will treat a 24 inch strip. Dosage per acre in row treatment should be reduced from the over-all dosage in proportion to the actual area treated.

DIRECTIONS FOR APPLICATION

CROP	GALLONS PER ACRE	TYPE OF TREATMENT
FIELD CROPS		
Cotton	50-100	Preplanting, at time of planting, or postplanting, row applications.
	75-150	Preplanting, or at time of planting over-all application.
Peanuts	100-150	Preplanting, either as an over-all or row treatment. See general directions for calculation of row application according to row width. At time of planting in the row only. Restrictions concerning disposition of peanut hay and hulls: Any forage crop grown on soil treated with a bromide containing fumigant should not be used as a feed for dairy animals or animals being finished for slaughter until two years after row treatments are made and three years following over-all treatment. Although a safe tolerance has been established by the U.S. Food & Drug Administration for residues of bromides in peanut kernels grown on soil fumigated with NEMAGON Soil Fumigant Granules, the peanut hay and hulls will contain bromide residues not covered by a tolerance. Do not feed, sell or otherwise introduce into commerce hay or hulls taken from treated soil.
Soybeans (in Southeastern States only)**	50-100	Preplanting or at time of planting, row application. Do not treat soils where soybean hay or forage will be used as feed for meat or dairy animals.*
	75-150	Preplanting or at time of planting, over-all application. Do not treat soil where soybean hay or forage will be used as feed for meat or dairy animals.*
VEGETABLE CROPS		
Snap beans, Cucumbers, Summer Squash, Carrots, Celery, Parsnips, Radishes and Turnips.	50-75	Preplanting, at planting or postplanting, row application. Do not feed plant parts to livestock.
Cabbage, Cauliflower, Broccoli, Brussels Sprouts and Okra.	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.
Lima Beans	50-75	Preplanting or at planting, row applications. Do not feed plant parts to livestock.*
	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.*
Lettuce, Endive, Escarole	100-125	Preplanting, over-all application.
Pelons	4-6 lbs. per 1000 linear feet of row, regardless of distance between rows. Preplanting or at planting application.	
	75-150	Preplanting or at planting over-all application.
Tomatoes, Eggplants, Peppers other than Bell Peppers	33-50	Preplanting, at planting or postplanting, row application.
Direct Seeded	75-150	Preplanting over-all application.
Tomatoes, Eggplants, Peppers other than Bell Peppers	75	Preplanting over-all application.

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17.3% NEMAGON Soil Fumigant Granules and soils on which these crops are to be grown should not be treated during the current growing season. 17.3% NEMAGON Soil Fumigant Granules may be mixed with granular fertilizer before application. Use combination product as soon as possible (within two weeks) after mixing. Do not store near seeds, feed or foodstuff. Apply in accordance with directions for 17.3% NEMAGON Soil Fumigant Granules only. Consult the State Agricultural Extension Service.

Use on mineral soils only. Do not exceed maximum dosage per acre in a single year.

PREPLANTING APPLICATION For best results, apply before each growing season or crop. For satisfactory nematode control, do not disturb the soil after application for 7-14 days for shallow-rooted crops and 4-6 weeks for deep-rooted crops.

OVER-ALL TREATMENT Apply NEMAGON Soil Fumigant Granules evenly in rows 12 inches apart at a depth of 6 to 8 inches. Seal the chisel channels IMMEDIATELY with pressure roller or flood with water. Application can be made with a fertilizer spreader or seeder.

ROW TREATMENT Apply 17.3% NEMAGON Soil Fumigant Granules in the rows to be planted at a depth of 6 to 8 inches below normal soil surface level. Seal the chisel channels IMMEDIATELY with pressure rollers or flood with water. Use one to three applicator chisels depending upon width of treated area desired. One chisel will treat a 12 inch strip. Two chisels (spaced 12 inches apart) will treat a 24 inch strip. Dosage per acre in row treatment should be reduced from the over-all dosage in proportion to the actual area treated. For example, if a 24-inch strip were treated and the rows were 48 inches apart, when the dosage per acre for row treatment would be 1/2 the dosage per acre for over-all treatment.

APPLICATIONS AT TIME OF PLANTING-NEMAGON Soil Fumigant Granules can be applied to the row while planting with suitable equipment such as a dry fertilizer attachment or granular insecticide applicator. Care should be taken to avoid direct contact of seed or plants with the fumigant.

POSTPLANTING APPLICATION FOR ANNUAL CROPS-Apply NEMAGON Soil Fumigant Granules as a band or side dressing at least 4 inches deep, as close to the plants as possible without disturbing or damaging the roots. Seal the chisel channels IMMEDIATELY.

POSTPLANTING APPLICATION FOR PERENNIAL OR ESTABLISHED PLANTS-Apply NEMAGON Soil Fumigant Granules in 12-inch spacings 6 to 8 inches deep, as close to the plants as possible without injuring roots. Treat when necessary to prevent reinfestation. Be sure to treat areas where feeder roots are found. Seal the chisel channels IMMEDIATELY.

APPLICATION WITHIN CONFINED AREAS-Confined areas, such as greenhouses, should be well ventilated during and after application.

APPLICATION TO ESTABLISHED TURF AND HOME LAWNS For treatment of turf and home lawns distribute the granules evenly over the area to be treated. May be applied with a fertilizer spreader or shaker can. After application IMMEDIATELY water the treated area thoroughly to wash the granules into the soil. Keep children and pets off treated areas until this material has been washed into the soil.

APPLICATION FOR HOME GARDENS -

1. Spade or plow the ground making sure all clods are broken. Soil should neither be too wet nor too dry (but in good seed bed condition).
2. **Preplant, overall application:** Apply granules evenly over the surface using a grass seeder or can with perforated lid. Respade to a depth of 6 inches to thoroughly mix granules into soil or, with a hoe, prepare narrow trenches 6 inches deep and 12 inches apart throughout the area.
Preplant, row application: Mark out the rows where you are going to plant and with a hoe prepare a narrow trench 6 inches deep directly in the row to be planted.
Postplant, row application: Prepare a narrow trench 6 inches deep and 6 inches on each side of the plants growing in the row.
3. Apply granules evenly down the center of each trench.
4. Immediately refill trenches with soil and lightly pack by walking over it or by rolling.

STORAGE PRECAUTION

Store leftover granules in the original container or in a glass container with a tight fitting lid to prevent evaporation of the NEMAGON Soil Fumigant

VEGETABLE CROPS	50-75	Preplanting, at planting or postplanting row application. Do not feed plant parts to livestock.
Snap beans, Cucumbers, Summer Squash, Carrots, Celery, Parsnips, Radishes and Turnips.	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.
Cabbage, Cauliflower, Broccoli, Brussels Sprouts and Okra.		
Lima Beans	50-75	Preplanting or at planting, row applications. Do not feed plant parts to livestock.*
	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.*
Lettuce, Endive, Escarole	100-125	Preplanting, over-all application.
Melons	4-6 lbs. per 1 000 linear feet of row, regardless of distance between rows. Preplanting or at planting application	
	75-150	Preplanting or at planting over-all application.
Tomatoes, Eggplants, Peppers other than Bell Peppers Direct Seeded	33-50	Preplanting, at planting or postplanting row application.
	75-150	Preplanting over-all application.
Tomatoes, Eggplants, Peppers other than Bell Peppers Transplants	75	Preplanting over-all application.
FRUIT AND NUT CROPS		
Bananas	100-500	Preplanting or at planting: Apply 0.8 oz. under the seed piece. Postplanting: Apply 100 to 300 lbs. per acre initially as a row application with supplemental applications of 100 lbs. per acre every 9 to 12 months.
Grapes, Peaches, Apricots and Nectarines	200-500	Preplanting, at planting or postplanting application to new or established planting, over-all or row application.
Raspberries, Blackberries, Dewberries, Loganberries, Boysenberries	200-500	Preplanting, at planting or postplanting to new or established plantings, over-all or row application. Allow at least 48 days between treatment and harvest.
Pineapple	200-800	Preplanting, or at planting: Apply at a depth of 5 inches or more. Avoid placing the fumigant directly in the plant line. Postplanting: Apply not less than 6 inches from the plant line at a depth of 5 inches or more. Allow at least 270 days between last application and harvest. Do not exceed 800 lbs./acre in any combination of treatments.
Citrus Trees	400-600	Preplanting, at planting, or postplanting, over-all or row. Do not apply more than once every three years.
Strawberries	50-75	Preplanting or postplanting row application. Allow at least 55 days between treatment and harvest.
	150	Preplanting, over-all application. Allow at least 55 days between treatment and harvest.
Figs	350	Preplant, at planting, or postplant treatment. Do not apply within 30 days of harvest.
Walnuts, English	200	Preplant, at planting, or postplant. Allow at least 100 days between treatment and harvest.
Roses		
Newly set up to 6 months	50	Postplanting row application. See General Directions for calculation of row application rates according to row width.
Established 6-12 months	100	
Established over 12 months	250	
TURF AND LAWN		
Turf Grasses	250-500	Preplanting over-all application.
	3/4-1 1/8 lbs/100 sq. ft.	Postplanting over-all application. Aerate before application for better penetration. Repeat as necessary. Apply not more than 400 lb/acre to bent grasses.

Net Contents: 50 Pounds

3% NEMAGON® Soil Fumigant Granules

17.3 Pounds (1 Gallon) NEMAGON Soil Fumigant per 100 Pounds



DIRECTIONS FOR APPLICATION

CROP	GALLONS PER ACRE	TYPE OF TREATMENT	CROP	GALLONS PER ACRE	TYPE OF TREATMENT
FIELD CROPS			ORNAMENTAL AND NURSERY PLANTS		
Cotton	50-100	Preplanting, at time of planting, or postplanting, row applications.	African Violet, Ageratum Aloe, Aloe, Aralia, Baby Tears, Begonia, Cactus, Caladium, Croton, Dieffenbachia, Dracaena godseffiana, Haworthia, Ivy, Jade Plant, Leuoodendron, Nautilogalyx, Nephthytis, Palm, Neantha Belle, Panda-Ears, Sarcococca, Schefflera, Spathiphyllum, Tradescantia	100-300	Preplanting over-all application.
	75-150	Preplanting, or at time of planting over-all application.	Achillea, Aglaonema, Ajuga, Anchusa, Arbor Vitae, Ardisia, Asparagus Fern, Aster, Astilbe, Azalea, B. berry, Bleeding Heart (Dicentra), Boxwood, Camellia, Campanula, Caryopteris, Cantananohe, Chrysanthemum, (hardy), Coropsis, Daisy (Shasta), Delphinium, Dianthus, Elm, (American), Euonymous, Fatsia, Forsythia, Funkia, Gardenia, Gypsophila, Helopsis, Helleborus, Hibiscus, Hypericum, Illex (Holly), Juniper, Lavender, Ligustrum (Privet), Lilac, Lily Croft, Lily of the Valley, Lythrum, Maple, Maranta, Monarda, Monstera, Oak, Pachysandra, Penstemon, Peony, Peperomia, Periwinkle (Vinca), Philodendron, Phlox, Pine, Pittosporum, Poppy, Pothos, Privet, Quince (Flowering), Rudbeckia, Salvia, Sedum, Spruce, Stokesia, Synogonium, Taxus, Tritoma, Trollius, Veronica, Vinca, Viola, Violet, Weigela	2/3 lbs. per cubic yard of potting soil	Mix granules thoroughly with potting soil prior to planting.
Peanuts	100-150	Preplanting, either as an over-all or row treatment. See general directions for calculation of row application according to row width. At time of planting in the row only. Restrictions concerning disposition of peanut hay and hulls: Any forage crop grown on soil treated with a bromide containing fumigant should not be used as a feed for dairy animals or animals being finished for slaughter until two years after row treatments are made and three years following over-all treatment. Although a safe tolerance has been established by the U.S. Food & Drug Administration for residues of bromides in peanut kernels grown on soil fumigated with NEMAGON Soil Fumigant Granules, the peanut hay and hulls will contain bromide residues not covered by a tolerance. Do not feed, sell or otherwise introduce into commerce hay or hulls taken from treated soil.	Cherry (Flowering), Chokeberry, Deutzia, Dogwood, Gladiola, Hydrangea, Philadelphia, Snowberry, Spirea, Viburnum	Home Gardens 0.5 lb. per 100 sq. ft.	Preplanting over-all application.
				0.5 lb. per 100 ft. of row	Preplanting row application.
				250-500	Preplanting, over-all application.
				100-250	Preplanting or postplanting (on established plants). Row application. See General Directions for row application rates according to row width.
Soybeans (in Southeastern States only)**	50-100	Preplanting or at time of planting, row application. Do not treat soils where soybean hay or forage will be used as feed for meat or dairy animals.*		Home Gardens 1 lb. per 100 sq. ft.	Preplanting over-all application.
	75-150	Preplanting or at time of planting, over all application. Do not treat soils where soybean hay or forage will be used as feed for meat or dairy animals.*		1 lb. per 100 ft. of row	Preplanting or postplanting row application.
VEGETABLE CROPS					
Snap beans, Cucumbers, Summer Squash, Carrots, Celery, Parsnips, Radishes and Turnips, Cabbage, Cauliflower, Broccoli, Brussels Sprouts and Okra.	50-75	Preplanting, at time of planting or postplanting row application. Do not feed plant parts to livestock.*			
	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.*			
Lima Beans	50-75	Preplanting or at planting, row application. Do not feed plant parts to livestock.*			
	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.*			
Lettuce, Endive, Escarole	100-125	Preplanting, over-all application.			
Melons	4-6 lbs. per 1 000 linear feet of row, regardless of distance between rows. Preplanting or at planting application.				
	75-150	Preplanting or at planting over-all application.			
Tomatoes, Eggplants, Peppers other than Bell Peppers Direct Seeded	5-150	Preplanting, at planting or postplanting row application.		100	Preplanting, over-all application.
	75-150	Preplanting over-all application.		50-75	Preplant or postplant (on established plants) row application. See General Directions for calculation of row application rates according to row width.
Tomatoes, Eggplants, Peppers other than Bell Peppers	75	Preplanting over-all application.		Home Gardens 0.25 lbs. per 100 sq. ft.	Preplanting, over-all application.
				0.5 lbs. per 100 ft. of row	Preplanting or postplanting, row application.

*Soybean hay and plant remains from lima beans on treated soil may contain bromide residues greater than those resulting from natural sources. Accordingly, do not graze treated areas or feed soybean hay or lima bean plant remains to meat or dairy animals. Do not sell such plant parts to another party or otherwise introduce into commerce.

**Southeastern States include Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and the southern third of Illinois

not be d with) after 17.3%	VEGETABLE CROPS Snap beans, Cucumbers, Summer Squash, Carrots, Celery, Parsnips, Radishes and Turnips.	50-75	Preplanting, at planting or postplanting row ap- plication. Do not feed plant parts to livestock.
	Cabbage, Cauliflower, Broccoli, Brussels Sprouts and Okra.	100-125	Preplanting, over-all application. Do not feed plant parts to livestock.
d. For crops	Lima Beans	50-75	Preplanting or at planting, row applications. Do not feed plant parts to livestock.*
		100-125	Preplanting, over-all application. Do not feed plant parts to livestock.*
part at water.	Lettuce, Endive, Escarole	100-125	Preplanting, over-all application.
	Melons	4-6 lbs. per 1 000 linear feet of row, regardless of distance be- tween rows. Preplanting or at planting application	
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to the cticide	FRUIT AND NUT CROPS Bananas	100-500	Preplanting or at planting: Apply 0.8 oz. under the seed piece. Postplanting: Apply 100 to 300 lbs. per acre initially as a row application with supplemental applications of 100 lbs. per acre every 9 to 12 months.
	Grapes, Peaches, Apricots and Nectarines	200-500	Preplanting, at planting or postplanting applica- tion to new or established planting, over-all or row application.
ules as naging	Raspberries, Blackberries, Dewberries, Loganberries, Boysenberries	200-500	Preplanting, at planting or postplanting to new or established plantings, over-all or row application. Allow at least 48 days between treatment and harvest.
	Pineapple	200-800	Preplanting or at planting: Apply at a depth of 5 inches or more. Avoid placing the fumigant direc- tly in the plant line. Postplanting: Apply not less than 6 inches from the plant line at a depth of 5 inches or more. Allow at least 270 days between last application and harvest. Do not exceed 800 lbs./acre in any combination of treatments.
lawns shaker e soil.	Citrus Trees	400-600	Preplanting, at planting, or postplanting, over-all or row. Do not apply more than once every three years.
	Strawberries	50-75	Preplanting or postplanting row application. Al- low at least 55 days between treatment and harvest.
oo dry		150	Preplanting, over-all application. Allow at least 55 days between treatment and harvest.
	Figs	350	Preplant, at planting, or postplant treatment. Do not apply within 30 days of harvest.
n with a hoe, pare a plants	Walnuts, English	200	Preplant, at planting, or postplant. Allow at least 100 days between treatment and harvest.
	Roses Newly set up to 6 months Established 6-12 months Established over 12 months	50 100 250	Postplanting row application. See General Direc- tions for calculation of row application rates according to row width.
revent	TURF AND LAWN Turf Grasses	250-500 3/4-1 1/8 lbs/100 sq. ft.	Preplanting over-all application. Postplanting over-all application. Aerate before application for better penetration. Repeat as necessary. Apply not more than 400 lb/acre to bent grasses.

Trollius, Veronica, Vinca, Viola,
Violet, Weigela

Cherry (Flowering), Chokeberry,
Deutzia, Dogwood, Gladiola,
Hydrangea, Philadelphus,
Snowberry, Spirea, Viburnum

100
50-75

Home Gar-
dens 0.25 lbs.
per 100 sq. ft.

0.5 lbs. per
100 ft. of
row

Preplanting, over-all application.

Preplant or postplant (on established plants) row
application. See General Directions for calcula-
tion of row application rates according to row
width.

Preplanting, over-all application.

Preplanting or postplanting, row application.

*Soybean hay and plant remains from lima beans on treated soil may contain bromide residues greater than those resulting from natural sources. Accordingly, do not graze treated areas or feed soybean hay or lima bean plant remains to meat or dairy animals. Do not sell such plant parts to another party or otherwise introduce into commerce.

**Southeastern States include Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and the southern third of Illinois and Missouri.

CAUTION: KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS

MAY BE HARMFUL OR FATAL IF SWALLOWED.

MAY CAUSE IRRITATION OF SKIN, EYES, NOSE AND THROAT. Do not get in eyes, on skin or on clothing. Do not breathe vapors or dust. Wash thoroughly with soap and water after handling and before eating or smoking. Do not contaminate feed and foodstuffs. Keep children and pets off treated areas until this material has been washed into the soil.

This product is toxic to wildlife. Birds and other wildlife feeding in treated areas may be killed. Granules exposed on soil surface may be hazardous to birds and other wildlife. Keep out of lakes, stream, or ponds. Do not apply where runoff is likely to occur. Apply this product only as specified on this label.

Any crop grown on soil treated with a bromide containing fumigant should not be used as a feed for dairy animals or animals being finished for slaughter until two years after row treatments are made or three years following over all treatment. Do not graze or feed treated plant parts (forage or hay) to meat or dairy animals. Do not sell treated plant parts (forage or hay) to another party or otherwise introduce into commerce.

DECONTAMINATE AND DESTROY USED CONTAINERS. Do not reuse for any purpose. Decontaminate containers by rinsing thoroughly with water and detergent. Destroy containers by crushing and burying in an isolated area. Dispose of rinsings in a way as not to constitute a hazard, or contaminate water supplies.

READ THE DIRECTIONS CAREFULLY BEFORE APPLICATION AND FOLLOW THEM AT ALL TIMES

Use this product on mineral soils to control Cyst (Soybean, Golden, Tobacco, Sugar Beet), Root Knot, Root-Lesion or Meadow, Burrowing, Citrus, Stem and Bulb, Free Living (String, Ring Awl, Spiral, Lance, Pin Sheath, Stubby Root, Stylet, Dagger), and other plant parasitic nematodes. The above Nematodes, as well as others, appear on nursery crops, grasses and ornamentals, field crops, vegetables, small fruits, nuts, deciduous fruits and citrus.

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NOTICE OF WARRANTY

SHELL CHEMICAL COMPANY MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

Net Contents: 50 Pounds

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