aug 32, 1972 2 147-218

ACTIVE INGREDIENTS:	2747 - 21 8-200
*Endosulfan (Hexachlorohexahy- dromethano-2, 4, 3-benzodioxa-	
thiepin oxide	24.0%
Xylene	69.0%
INERT INGREDIENTS:	7.0%
	Total 100%
*Contains 2 lbs active per gallon	

*Contains 2 lbs. active per gallon.

EPA REG. NO: 2749-218

NET CONTENTS:

WARNING: KEEP OUT OF REACH OF CHILDREN.

HAZARDOUS IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. DO NOT BREATHE SPRAY MIST. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. IN CASE OF CONTACT, IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND FLUSH SKIN OR EYES WITH PLENTY OF WATER; FOR EYES - GET MEDICAL ATTENTION. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING OR SMOKING, WEAR CLEAN CLOTH-ING. DURING COMMERCIAL OR PROLONGED EXPOSURE IN SPRAY-MIXING AND LOADING OPERATIONS, WEAR CLEAN SYNTHETIC RUBBER GLOVES AND A MASK OR RESPIRA-TOR OF A TYPE PASSED BY THE U.S. BUREAU OF MINES FOR ENDOSULFAN PROTECTION. DO NOT APPLY OR ALLOW TO DRIFT TO AREAS OCCUPIED BY UNPRO-TECTED HUMANS OR BENEFICIAL ANIMALS.

CAUTION: WORKERS ENTERING TREATED AREAS WITH-IN 24 HOURS OF APPLICATION SHOULD WEAR PROTEC-**TIVE CLOTHING.**

DO NOT ALLOW THIS MATERIAL TO DRIFT ONTO NEIGH-BORING CROPS OR NON-CROP AREAS OR USE IN A MAN-NER 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.**

NOTE TO PHYSICIAN: Active ingredient is a central nervous system stimulant and may cause convulsions. There is no specific antidote. Barbituric acid derivatives may be used in treatment.

DIRECTIONS FOR USE.

NOT FOR USE OR STORAGE IN OR AROUND THE HOME -

Apply the listed amount per acre when insects first appear and repeat as required to maintain effective control. Use in sufficient water for thorough coverage, unless otherwise noted, for listed crops. Coverage of upper and lower leaf surfaces is essential for good control. Observe use limitations. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides. Observe days interval between last application and harvest indicated by number in () following the crop:

ROOT CROPS: Do not plant root crops other than carrots, potatoes and sweet potatoes as follow-up crops.

When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of one gallon finished spray per acre. Where more than 2 quarts of this material are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of ENDOSUFLAN used.

ALFALFA, grown for forage (21); Meadow Spittlebug - 1 pt. per acre. Apply 1 week after eggs begin to hatch or when first small masses of froth are produced in the crowns of the plant which is usually about the time the alfalfa is 4-6 inches tall. Apply in at least 10 gals. of water per acre by ground applicator or in at least 2 gals. of water by airplane. Do not apply more than once per cutting. Do not graze or cut forage within 21 days of treatment.

ENDOSULFAN INSECTICIDE

BROCCOLI (7), CABBAGE (7) FLOWER (14); Cabbage Aphid, worm, Diamondback Moth Larva Cabbageworm, Stink Bug - 11/2 to acre.

CARROTS (7): Green Peach Aph tions per season. Do not use tops for

CELERY (7): Green Peach Aphi Aphid, Cabbage Looper - 1 to season.

COLLARDS (21): Cabbage Loope Bug, Imported Cabbageworm - 11/2 per season.

CUCUMBERS (0), MELONS (0) Aphids, Cucumber Beetles, Stripe Rindworm (on watermelon), Squ Borer -1 to 2 qts. For vine bo stems and vines beginning when me **Omnivorous Leaf Roller on Melons**

EGGPLANTS_(1): Blister Beetle, C Peach Aphid, Green Stink Bug, Whi

KALE (21): Flea Beetle, Harlequin per acre. Do not exceed 1 application

LETTUCE (14): Cabbage Looper, Larvae, Imported Cabbageworm thinning head lettuce and remove two applications per season on le livestock.

MUSTARD GREENS (21), TUP Looper, Imported Cabbageworm application per season.

PEAS, Succulent (0): Pea Aphid, exceed two applications during the harvested by combine. Do not fe graze in treated fields.

HAZARDOUS IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. DO NOT BREATHE SPRAY MIST. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. IN CASE OF CONTACT, IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND FLUSH SKIN OR EYES WITH PLENTY OF WATER; FOR EYES - GET MEDICAL ATTENTION. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING OR SMOKING, WEAR CLEAN CLOTH-ING. DURING COMMERCIAL OR PROLONGED EXPOSURE IN SPRAY-MIXING AND LOADING OPERATIONS, WEAR CLEAN SYNTHETIC RUBBER GLOVES AND A MASK OR RESPIRA-TOR OF A TYPE PASSED BY THE U.S. BUREAU OF MINES FOR ENDOSULFAN PROTECTION. DO NOT APPLY OR ALLOW TO DRIFT TO AREAS OCCUPIED BY UNPRO-TECTED HUMANS OR BENEFICIAL ANIMALS.

CAUTION: WORKERS ENTERING TREATED AREAS WITH-IN 24 HOURS OF APPLICATION SHOULD WEAR PROTEC-TIVE CLOTHING.

DO NOT STORE AT TEMPERATURES BELOW 20° F. DO NOT USE IN UNDILUTED FORM. DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. **KEEP OUT OF LAKES, STREAMS OR PONDS.**

THIS PRODUCT IS TOXIC TO FISH AND WILDLIFE. BIRDS FEEDING ON TREATED AREAS MAY BE KILLED. DO NOT CONTAMINATE WATER BY CLEANING OF EQUIPMENT, OR DISPOSAL OF WASTES. APPLY THIS PRODUCT ONLY AS SPECIFIED ON THIS LABEL.

THIS PRODUCT IS TOXIC TO BEES AND SHOULD NOT BE APPLIED WHEN BEES ARE ACTIVELY VISITING THE AREA.

RINSE EQUIPMENT AND CONTAINERS AND DISPOSE OF WASTES BY BURYING AT LEAST 18" DEEP IN NON-CROP LANDS AWAY FROM WATER SUPPLIES. DO NOT REUSE CONTAINERS; SMASH OR PERFORATE AND BURY WITH WASTES.

en en an andamen me kondilitas tomo tama tas harretus' en harausaris. En la control program with other suitable pesticides. Observe days interval between last application and harvest indicated by number in () following the crop:

ROOT CROPS: Do not plant root crops other than carrots, potatoes and sweet potatoes as follow-up crops.

When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of one gallon finished spray per acre. Where more than 2 quarts of this material are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of ENDOSUFLAN used.

ALFALFA, grown for forage (21); Meadow Spittlebug - 1 pt. per acre.

Apply 1 week after eggs begin to hatch or when first small masses of froth are produced in the crowns of the plant which is usually about the time the alfalfa is 4-6 inches tall. Apply in at least 10 gals. of water per acre by ground applicator or in at least 2 gals. of water by airplane. Do not apply more than once per cutting. Do not graze or cut forage within 21 days of treatment.

ALFALFA, seed crop only: Meadow Spittlebug - 1 pt. per acre. Aphids -1 qt. Lygus Bugs - 3 to 4 qts. Apply in at least 10 gals. of water per acre. Do not feed treated forage to dairy or meat animals. Do not use on forage to be sold commercially or shipped interstate. Crop to be used for seed production only.

BARLEY, OATS, RYE, WHEAT: Army Cutworm – 1 qt. per acre. Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter. For airplane applications, apply in 2 gals. diesel fuel oil per acre.

* + - -BEANS (3) succulent and dry (except Lima Beans); Black Lean aphid, Bean

Leaf Skeletonizer, Cucumber Beetles, Green Stinkbug, Mexican Bean Beetle -Use 1 to 2 qts. Western Bean Cutworm - Use 2 qts. Do not exceed 3 applications per season. Do not feed threshings or allow livestock to graze in treated fields. Do not use on lima beans that are to be removed from the field for processing.

<u>BLUEBERRIES</u>: Blueberry Bud Mite – 3 qts. per acre in 300 gallons of water. Apply immediately after harvest and repeat 6-8 weeks later. Do not apply after buds are well formed.

EGGPLANTS (1): Blister Beetle, Peach Aphid, Green Stink Bug, W

KALE (21): Flea Beetle, Harleq per acre. Do not exceed 1 applica

LETTUCE (14): Cabbage Loope Larvae, Imported Cabbageworm thinning head lettuce and remov two applications per season on livestock.

MUSTARD GREENS (21), T Looper, Imported Cabbageworr application per season.

PEAS, Succulent (0): Pea Aphi exceed two applications during harvested by combine. Do not graze in treated fields.

PEPPERS (4) * Green peach Maggot - 1 to 2 qts. *1 day if ma

POTATOES (0): Aphids, Arm Stink Bug, Leaf-footed Bug, Leafhopper, Potato Tuberworm, Corn Borer, Potato Psyllid – 11 gts. per acre. Three-lined Potato

PUMPKINS (0): Aphids, Cucun gts. per acre. For vine borer con vines beginning when moths first

SOYBEANS: Green Stink Bug, after pods begin to form. Do not

SPINACH (21):Crown Mite, Gre one application per season.

SUGAR BEETS (0): Green Peac 1 qt. Sugar Beet Webworm livestock.



Manufactured For.



126-02 NORTHERN BOULEVARD, FLUSHING,

ENDOSULFAN INSECTICIDE

AREAS OR USE IN A MAN-AN IN ACCORDANCE WITH ANIMAL, PLANT OR CROP OR OTHER UNDESIRABLE

gredient is a central nervous e convulsions. There is no derivatives may be used in

R AROUND THE HOME -

insects first appear and repeat as se in sufficient water for thorough ted crops. Coverage of upper and control. Observe use limitations. If owing use patterns, supplement the ides. Observe days interval between imber in () following the crop:

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dow Spittlebug - 1 pt. per acre. Dr when first small masses of froth which is usually about the time the east 10 gals. of water per acre by of water by airplane. Do not apply ze or cut forage within 21 days of BROCCOLI (7), CABBAGE (7), BRUSSELS SPROUTS (14), CAULI-FLOWER (14); Cabbage Aphid, Cabbage Looper, Cross-striped Cabbageworm, Diamondback Moth Larvae, Flea Beetle Harlequin Bug, Imported Cabbageworm, Stink Bug – 1½ to 2 qts. Armyworms, Cutworms – 2 qts. per acre.

<u>CARROTS</u> (7): Green Peach Aphid – 1 to 2 qts. Do not exceed 2 applications per season. Do not use tops for food or feed.

CELERY (7): Green Peach Aphid – 1 qt. or CELERY (7) Green Peach Aphid, Cabbage Looper – 1 to 2 qts. Do not exceed 3 applications per season.

COLLARDS (21): Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbageworm – 1½ qts. per acre. Do not exceed 1 application per season.

CUCUMBERS (0), MELONS (0), SUMMER & WINTER SOUASH (0), Aphids, Cucumber Beetles, Striped Flea Beetle, Melonworm Pickleworm, Rindworm (on watermelon), Squash Beetle, Squash Bug, Squash Vine Borer – 1 to 2 qts. For vine borer control, apply weekly to flowerbuds, stems and vines beginning when moths first appear. For Cabbage Looper and Omnivorous Leaf Roller on Melons use 2 quarts.

EGGPLANTS (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly – 1 qt.

<u>KALE</u> (21): Flea Beetle, Harlequin Bug, Imported Cabbageworm – 1½ qts. per acre. Do not exceed 1 application per season.

LETTUCE (14): Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm – 2 qts. Do not exceed 3 applications after thinning head lettuce and remove outside leaves at harvest. Do not exceed two applications per season on leaf lettuce. Do not feed crop refuse to livestock.

MUSTARD GREENS (21), TURNIP GREENS (21): Aphids, Cabbage Looper, Imported Cabbageworm $-1\frac{1}{2}$ qts. per acre. Do not exceed 1 application per season.

PEAS, Succulent (0): Pea Aphid, Pea Weevil – 2 qts. per acre. Do not exceed two applications during the fruiting period. Use only on peas to be harvested by combine. Do not feed treated vines to livestock or allow to graze in treated fields.

STRAWBERRIES (4): Cyclamen Mite – 4 qts. per acre in 400 gals. of water to thoroughly wet foliage stems and crowns of plants. Do not apply at intervals of less than 35 days when fruit is present. Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug – 2 qts. per acre in 200 gals. of water. Do not apply at intervals of less than 15 days or more than twice during any 35 day period when fruit is present.

SUNFLOWER (0): Sunflower Moth – 2 qts. per acre. Do not exceed 3 applications per season. Make first application at onset of bloom and make two more applications at $4 \cdot 7$ day intervals. Do not feed treated forage to livestock.

SWEET CORN, fresh vegetable use only (0); Corn Leaf Aphid – 2 qts. Corn Earworm – 3 qts. Apply at 2-3 day intervals beginning when silks first appear and continuing until they begin to dry. Do not exceed 5 applications. Do not apply to sweet corn to be processed. Do not feed treated forage or ensilage to livestock or allow to graze in treated fields.

SWEET POTATOES (0): Sweet Potato Flea Beetle – 1 qt. per acre. Begin applications shortly after transplanting or as soon as flea beetles appear. Banded Cucumber Beetle Larvae (aids in control of, and for use in South Central States only) – 2 to 4 qts. per acre broadcast, or 2/3 to 1-1/3 qts. per acre in a 16" band over the row (48" spacing). Work into the soil to a depth of approximately 3" making a single treatment just prior to plant set. Do not feed treated potatoes to livestock.

TOBACCO (5): Flea Beetle, Hornworm, Budworm, Green Peach Applic, Cabbage Looper -- FIELD: 1-2 qts. SEED BED: Mix 1 qt. per 100 gets of water and apply 6 gals. spray per 100 sq. yds. Green June Bug Larvae (1996) 1/2 qt. per 100 gals.. of water and drench plant bed with 1 gal. spray (1996) 4. yd. Stink Bug -- Use field application of 2-3 qts. per 100 gals.

TOMATOES (Field and Greenhouse): (1): Blister Beetle, Colorado Cotato Beetle, Flea Beetle, Green Peach Aphid – 1 qt. Hornworms – 1 to 2 qts. Tomato Russet Mite, Toinato Fruitworm Yellow-Striped Armyworm – 2 qts. Stink Bugs – 1½ to 2 qts. Cabbage looper – 1½ qts. Whitefly – 1 qt. per 100 gals. in 100-200 gals. of water.

<u>APPLES</u> (30): Apple Aphid, Rosy Apple Aphid – 1 qt. per 100 gals. or 4-5 qts. per acre. Apple Rust Mite – 3/4 to 1 qt. per 100 gals. or 6-8 qts. per acre. Do not feed pomace from treated apples to livestock. Do not exceed 2 applications during the fruiting period at rate above 5 qts. per acre.

CHERRY (21): Plum Rust (plum nursery) Mite – 1 qt. per 100 gals. or 4-5 <u>qts. per acre. Do not exceed 2 applications after shuck split. Mineola Moth</u> ing use patterns, supplement the s. Observe days interval between ber in () following the crop:

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Beans); Black bean aphid, Bean Stinkbug, Mexican Bean Beetle se 2 gis. Do not exceed 3 applis or allow livestock to graze in at are to be removed from the

qts. per acre in 300 gallons of repeat 6-8 weeks later. Do not

EGGPLANTS (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly - 1 qt.

KALE (21): Flea Beetle, Harlequin Bug, Imported Cabbageworm - 11/2 qts. per acre. Do not exceed 1 application per season.

LETTUCE (14): Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm -2 qts. Do not exceed 3 applications after thinning head lettuce and remove outside leaves at harvest. Do not exceed two applications per season on leaf lettuce. Do not feed crop refuse to livestock.

MUSTARD GREENS (21), TURNIP GREENS (21): Aphids, Cabbage Looper, Imported Cabbageworm $-1\frac{1}{2}$ qts. per acre. Do not exceed 1 application per season.

PEAS, Succulent (0): Pea Aphid, Pea Weevil - 2 qts. per acre. Do not exceed two applications during the fruiting period. Use only on peas to be harvested by combine. Do not feed treated vines to livestock or allow to graze in treated fields.

PEPPERS (4) * Green peach Aphid, Flea Beetles, Hornworms, Pepper Maggot - 1 to 2 qts. *1 day if maximum of 1 qt. per acre is applied.

POTATOES (0): Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Bug, Plant Bugs, Potato Flea Beetles, Potato Black Leafhopper, Potato Tuberworm, Whitefly - 1 to 2 qts. per acre. European Aphie Corn Borer, Potato Psyllid $-1\frac{1}{2}$ to 2 qts. per acre. False Chinch Bug -2Peach qts. per acre. Three-lined Potato Beetle - 1 qt. per acre. Rusty

PUMPKINS (0): Aphids, Cucumber Beetles, Squash Vine Borer - 1 to 2 Lesse qts. per acre. For vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear. Peach

SOYBEANS: Green Stink Bug, Mexican Bean Beetle - 1 qt. Do not apply after pods begin to form. Do not feed treated threshings to livestock.

SPINACH (21):Crown Mite, Green Peach Aphid – 1½ gts. Do not exceed one application per season.

SUGAR BEETS (0): Green Peach Aphid - 1 to 2 qts. Meacow Spittlebug -1 qt. Sugar Beet Webworm $-1\frac{1}{2}$ to 2 qts. Do not feed treated tops to livestock.

inufactured For:



6-02 NORTHERN BOULEVARD, FLUSHING, N.Y. 11368

acre in a 16" band over the row (48" spacing). Work into the soil to a depth of approximately 3" making a single treatment just prior to plant set. Do not feed treated potatoes to livestock.

TOBACCO (5): Flea Beetle, Hornworm, Budworm, Green Peach Aphid, Cabbage Looper - FIELD: 1-2 qts. SEED BED: Mix 1 qt. per 100 gals. of water and apply 6 gals. spray per 100 sq. yds. Green June Bug Larvae - Use 1/2 qt. per 100 gals.. of water and drench plant bed with 1 gal. spray per sq. yd. Stink Bug - Use field application of 2-3 qts. per 100 gals.

TOMATOES (Field and Greenhouse): (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid - 1 qt. Hornworms - 1 to 2 qts. Tomato Russet Mite, Tomato Fruitworm, Yellow-Striped Armyworm - 2 qts. Stink Bugs - 11/2 to 2 qts. Cabbage looper - 11/2 qts. Whitefly - 1 qt. per 100 gals. in 100-200 gals. of water.

APPLES (30): Apple Aphid, Rosy Apple Aphid -- 1 qt. per 100 gals. or 4-5 qts. per acre. Apple Rust Mite - 3/4 to 1 qt. per 100 gals. or 6-8 qts. per acre. Do not feed pomace from treated apples to livestock. Do not exceed 2 applications during the fruiting period at rate above 5 qts. per acre.

CHERRY (21): Plum Rust (plum nursery) Mite - 1 qt. per 100 gals. or 4-5 qts. per acre. Do not exceed 2 applications after shuck split. Mineola Moth (Michigan only) - 2 qts. per 100 gals. applied in delayed dormant period.

PEACHES (30), APRICOTS (30), NECTARINES (30):

, **.**

k Cherry Aphid, Black Peach)	1 qt. per 100 gals. or
id, Cat-facing Insects, Green)	4 to 5 qts. per acre.
h Aphid, Peach Twig Borer,)	
ty Plum Aphid)	
er Peach Tree Borer)	1½ qts. per 100 gals.
h Silver Mite)	1/2 qt. per 100 gals. or
)	4 to 5 qts. per acre.

DO NOT EXCEED TWO APPLICATIONS DURING FRUITING PERIOD. FOR LESSER PEACH TREE BORER, THOROUGH WETTING OF TRUNKS AND MAIN BRANCHES IS IMPORTANT.

PLUMS (7), PRUNES (7): Lesser Peach Tree Borer - 1¹/₂ qts. per 100 gals. or 4-5 qts. per acre. Apply spray to thoroughly wet trunks and main branches. Peach Tree Borer - 1½ qts. per 100 gals. or 4-5 qts. per acre. Spray thoroughly to cover all bark areas from ground to scaffold limbs.