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19713-89

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MAR 12 1997

Barbara Brown
Drexel Chemical Company
P.O. Box 13327
Memphis, TN 38113-0327

Subject: Drexel Carbaryl 2L
EPA Registration No. 19713-89
Amendment dated 11/22/96
Response to Agency letter dated 10/1/96

Dear Ms. Brown:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the following changes to your label:

a) Because your product is intended for use in commercial agricultural situations and as a home garden product, the Worker Protection Standard requirements and the requirements outlined in the Agency letter dated 10/1/96 should be kept separate to avoid confusion. Therefore, delete the NON-AGRICULTURAL USE REQUIREMENTS box and create a new box titled RESIDENTIAL USER SAFETY REQUIREMENTS as follows:

RESIDENTIAL USER SAFETY REQUIREMENTS	
Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when applying this product.	
Wear a hat and eye protection when making overhead applications.	
Remove clothing immediately if pesticide soaks clothing. Change clothing as soon as possible after use.	
Wash the outside of gloves before removing. As with any pesticide product, wash hands thoroughly immediately after handling and before eating, smoking or using the toilet.	
Do not allow children or pets to contact treated area until sprays have dried.	

SYMBOL							
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- b) At the beginning of the first paragraph on the fourth page of your label ("Apply when air is calm..."), add the heading "DIRECTIONS FOR RESIDENTIAL USE" to distinguish this language that was required in the Agency letter dated 10/1/96 from the directions for commercial agricultural use.
 - c) In the Directions for Use on Asparagus, change "Do not treat more than once every 3 days" to "Do not treat more than once every 7 days."
 - d) In the Directions for Use on Carrots, Dandelions, Garden beets, and Okra, change "Treat on a 5 to 7 day schedule" to "Do not treat more than once every 7 days."
 - e) In the Directions for Use on Corn, change "...apply at 1 to 6 day intervals..." to "...apply no more than once every 7 days..."
2. Submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

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Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

3/11

Drexel
Carbaryl 2L
Insecticide

ACTIVE INGREDIENT:

Carbaryl (1-Naphthyl N-methylcarbamate).....22.5%

INERT INGREDIENTS:.....77.5%

TOTAL:.....100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

**Read Entire Label Before Using This Product
SHAKE WELL BEFORE USING**

STATEMENT OF PRACTICAL TREATMENT

Carbaryl is an N-methyl carbamate and is a cholinesterase inhibitor.

IF SWALLOWED: Induce vomiting by placing finger on back of throat. Call a physician. Never give anything by mouth to an unconscious person.

IF ON SKIN: Wash skin with soap and plenty of water. If irritation develops, get medical attention.

IF IN EYES: Immediately flush eyes with plenty of water. If irritation develops, get medical attention.

NOTE TO PHYSICIAN: Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, opiates or cholinesterase inhibiting drugs.

EPA Reg. No. 19713-89
EPA Est. No. 19713-GA-1

F:\Label\Lbls\Carb2L.DOC
Revision Date: 11/22/96

**ACCEPTED
with COMMENTS
in EPA Letter Dated**

MAR 12 1997

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.**

19713-89

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REC'D EPA/OPP/OPD1

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals.

CAUTION: Harmful if swallowed. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Do not use this product in commercial food areas or food handling establishments, restaurants, or other places where food is prepared or processed.

PERSONAL PROTECTIVE EQUIPMENT

WPS USES: Applicators and other handlers who handle this pesticide for any uses covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural plant uses are covered -- must wear: long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

NON-WPS USES: Applicators and other handlers who handle this pesticide for any uses NOT covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural plant uses are covered -- must wear: Long-sleeved shirt and long pants, shoes plus socks and household latex or rubber gloves when applying this product.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark, except under the forestry canopy. Do not contaminate water by cleaning of equipment or disposal of wastes.

BEE CAUTION: This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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GENERAL INFORMATION

CARBARYL 2L is for effective control of many listed insect pests on vegetable crops, tree fruit and nut crops, small fruit crops, trees and ornamentals and lawns and recreation areas. Also for control of mosquitoes and listed poultry pests. Can be used in the home as directed. CARBARYL 2L readily disperses in water to form a spray suspension suitable for home and garden use. Read label before use, strictly observe label directions and applicable federal and state regulations. To avoid possible injury to tender foliage, do not apply to wet foliage or when rain or high humidity is expected during the next two days. CARBARYL 2L injures Boston Ivy, Virginia Creeper and Maiden-Hair Fern. During early season, it may also injure Virginia and Sand Pines.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, waterproof gloves and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not allow children or pets to contact treated area until sprays have dried.

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Apply when air is calm to avoid drift and contact with eyes and skin. Start spraying at the farthest corner of the treatment area and work backward to avoid contact with wet surfaces. Allow spray to dry in treated areas before re-entering. For trees taller than 10 feet, consider hiring a licensed professional. Spray thoroughly to wet upper and lower leaf surfaces, stems and branches. Do not repeat applications more than once a week.

Subsequent planting of food and feed crops in treated soil must be made with crops on this or other carbaryl labels. Do not use application methods, dosages, concentrations or frequencies not listed on labeling. Do not apply against target pests or crops not listed on labeling. Do not mix with fertilizers.

SPRAY PREPARATION

To assure a uniform product, stir or shake all CARBARYL 2L containers prior to use. Clean sprayer thoroughly before use. Prepare only as much spray mixture as is needed on the day of mixing. Fill sprayer with 1/2 to 3/4 the desired amount of water. Slowly add the required amount of CARBARYL 2L, and then the remaining volume of water. Shake spray mixtures frequently before and during use to prevent settling. Do not store spray mixtures overnight. To clean your sprayer after use, drain and flush with water. Do not use contaminated teaspoons or other measuring devices for other purposes.

COMPATIBILITY

CARBARYL 2L when diluted with an equal volume of water, is compatible with a wide range of pesticides. It is not compatible with diesel fuel, kerosene, fuel oil, or aromatic solvents. If compatibility of CARBARYL 2L with another product and the resulting plant response is unknown, it should be tested on a small scale. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. When preparing combination sprays, first add CARBARYL 2L to at least an equal volume of water, mix thoroughly, and then add combination products to the mixture. Do not apply combinations unless your previous experience indicates the mixture is effective and will not result in application problems, excessive residues or plant injury. Unstable under highly alkaline conditions. Not effective if used with alkaline materials such as Bordeaux, lime-sulfur and casein-lime spreaders.

INSECT CONTROL

Apply when insects or their damage appear. To maintain control, repeat at 7 to 14 day intervals or as necessary unless a shorter interval is specified below. Where a dosage range is indicated, use lower rate on young plants and early instars and higher rate on mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control. Avoid applications just before rainfall as poor insect control may result. CARBARYL 2L does not control Spider Mites. If Spider Mites are a problem, use a registered miticide.

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VEGETABLE CROPS

All dosages refer to teaspoonfuls of CARBARYL 2L per gallon of water. Typical spray gallonage per 430 sq. ft. ranges from 1 to 2 gallons. Do not exceed maximum dosage rate per 430 sq. ft. per application. One teaspoonful equals 0.17 fl. oz. or 5 milliliters. Three teaspoonfuls equal one tablespoonful.

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Crops	Insects	Tsps. / Gal.	PHI (Days)
All vegetable crops in this section	Grasshoppers	2 to 6	See specific vegetable crop
SPECIFIC DIRECTIONS: Use 2 to 3 tsps. / gal. for nymphs on small plants or sparse vegetation. Use 4 to 6 tsps. / gal. for adult grasshoppers or application to dense vegetation.			
Asparagus	Asparagus Beetle	4 to 8	1 Post-harvest application only
	Apache Cicada, Asparagus Beetle	8 to 16	
SPECIFIC DIRECTIONS: Treat ferns or brush growth. Do not treat more than once every 3 days.			
Beans (including blackeyed peas, cowpeas, crowder or southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Blister Beetles, Mexican Bean Beetle	2 to 4	0 (3 - cowpeas only)
	Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetles, Flea Beetles, Green Cloverworm, Japanese Beetle, Leafhoppers, Three Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar, Western Bean Cutworm	4	
	Amyworm, Corn Earworm, Cutworms, European Corn Borer, Fall Armyworm, Stink Bugs, Tarnished Plant Bug, Webworms	4 to 6	
	Cowpea Curculio	8	
SPECIFIC DIRECTIONS: Observe plant response precaution.			
Beans (including blackeyed peas, cowpeas, crowder or southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Corn Earworm, Lima Bean Pod Borer, Lygus Bugs, Stink Bugs	8	0 (3 - cowpeas only)
SPECIFIC DIRECTIONS: California Only.			
Crops	Insects	Tsps. / Gal.	PHI (Days)
Cabbage, broccoli, brussels sprouts, cauliflower, kohlrabi	Flea Beetles, Harlequin Bug	2 to 4	3
	Amyworm, Corn Earworm, Fall Armyworm, Imported Cabbageworm	4 to 8	
Chinese cabbage, collards, hanover salad, horseradish, kale, mustard greens, radishes, rutabagas, turnips	Flea Beetles, Harlequin Bug, Leafhopper	2 to 4	3 (horseradish, radishes, rutabagas & turnip roots) 14 (Chinese cabbage, collards, hanover salad, kale, mustard greens and turnip tops)
	Aster Leafhopper	4 to 6	
	Amyworm, Corn Earworm, Fall Armyworm, Imported Cabbage Worm, Stink Bugs, Tarnished Plant Bugs	4 to 8	
Carrots, celery, parsnips, parsley	Flea Beetles, Leafhoppers	2 to 4	0 (carrots) 3 (parsnips) 14 (celery, parsley)
	Aster Leafhopper, Lygus Bugs, Spittlebugs	4 to 6	
	Amyworm, Corn Earworm, Fall Armyworm, Stink Bugs, Tarnished Plant Bug	4 to 8	
SPECIFIC DIRECTIONS: Treat on a 5 to 7 day schedule.			
Com	Amyworm, Chinch Bugs, Corn Earworm, Corn Rootworm Adults, European Corn Borer, Fall Armyworm, Flea Beetles, Japanese Beetle, Sap Beetles, Southwestern Corn Borer, Leafhoppers	4 to 8	0
OBSERVE BEE CAUTION: For insects attacking silks and ears apply at 1 to 6 day intervals starting when first silks appear and continuing until silks begin to dry. For larvae in whorl and foliage feeders, apply as necessary. For chinch bugs, use high gallonage ground application directed at the base of plant. Optimum timing and good coverage are essential for effective control.			
Com	Western Bean Cutworm	8	0
SPECIFIC DIRECTIONS: Treat when infestation averages 15% and at 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.			

Crops	Insects	Tsps. / Gal.	PHI (Days)
Cucumber melons, pumpkin, squash	Pickeworm, Melonworm	2 to 4	0
	Cucumber Beetles, Flea Beetles, Leafhoppers, Squash Bugs	4	
SPECIFIC DIRECTIONS: Observe plant response precautions. Avoid excessive applications.			
Dandelions, endive (escarole), lettuce, salsify	Flea Beetles, Harlequin Bugs, Leafhoppers	2 to 4	3 (head lettuce, salsify roots), 14 (dandelions, endive, escarole), leaf lettuce, salsify tops)
	Aster Leafhopper, Lygus Bugs, Spittlebugs	4 to 6	
	Amyworm, Corn Earworm, Fall Armyworm, Imported Cabbage Worm, Stink Bugs, Tarnished Plant Bug	4 to 8	
SPECIFIC DIRECTIONS: Observe plant response precautions. Treat on a 5 to 7 day schedule after heads begin to form.			
Garden beet, spinach, swiss chard	Flea Beetles, Harlequin Bugs, Leafhoppers	2 to 4	3 (garden beet roots) 14 (garden beet tops, spinach, swiss chard)
	Aster Leafhopper	4 to 6	
	Amyworm, Corn Earworm, Fall Armyworm, Stink Bugs, Tarnished Plant Bug	4 to 8	
SPECIFIC DIRECTIONS: Treat on a 5 to 7 day schedule.			
Crops	Insects	Tsps. / Gal.	PHI (Days)
Okra	Corn Earworm, Stink Bugs	4 to 8	0
SPECIFIC DIRECTIONS: Treat on a 5 to 7 day schedule.			
Peanuts	Blister Beetles, Mexican Bean Beetle	2 to 4	0
	Alfalfa Caterpillar, Bean Leaf Beetle, Cucumber Beetles, Green Cloverworm, Japanese Beetle, Leafhoppers, Red-necked Peanutworm, Three Cornered Alfalfa Hopper, Thrips, Velvetbean Caterpillar	4	
	Amyworm, Corn Earworm, Fall Armyworm, Stink Bugs, Webworms	4 to 6	
	Cutworms, White-Fringed Beetle (adults)	8	
Peas	Colorado Potato Beetle, Leafhoppers	4	0
	Amyworms	4 to 6	
	Alfalfa Caterpillar, Cutworms, Pea Leaf Weevil, Pea Weevil, Yellow Striped Armyworm	8	
SPECIFIC DIRECTIONS: Observe plant response precautions.			
Peas	Alfalfa Looper	10	0
SPECIFIC DIRECTIONS: Washington only			

Crops	Insects	Tsps. / Gal.	PHI (Days)
Potato, tomato, eggplant, pepper	Colorado Potato Beetle, Flea Beetles, Leafhoppers	2 to 4	0
	European Corn Borer, Fall Armyworm, Lace Bugs, Stink Bugs, Tarnished Plant Bug, Tomato Fruitworm, Tomato Hornworm, Tomato Pinworm	4 to 8	
	Cutworms	8	

TREE FRUIT AND NUT CROPS

All dosages refer to teaspoonfuls of CARBARYL 2L per gallon of water. Use sufficient spray gallonage to obtain thorough coverage. Do not exceed maximum rate of CARBARYL 2L per gallon of spray. (One teaspoonful equals 0.17 fl. ozs. or 5 milliliters. Three teaspoonfuls equals one tablespoonful).

Crops	Tsps. / Gal.	PHI (Days)
Apple thinning	1 to 2	1
Apples only	2 to 4	

SPECIFIC DIRECTIONS: Apply 1 full coverage dilute spray between 10 and 25 days after full bloom. If factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit thinning with CARBARYL 2L, exercise caution to avoid possible yield reduction.
 For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton.
 For difficult to thin varieties including Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial.

Crops	Insects	Tsps. / Gal.	PHI (Days)
Almond	Peach Twig Borer, San Jose Scale, Fruitree Leafroller	4	28
SPECIFIC DIRECTIONS: Apply in "popcorn" or petal fall stages and again when the May brood of the Peach Twig Borer begins to hatch or thereafter as needed.			
Almonds	Navel Orangeworm	4	28
SPECIFIC DIRECTIONS: Time early and mid-season application to correspond to moth flight peaks. Make a late season application at initiation of hull split or up to 10% hull split. Do not apply more than 3 fl. ozs. per 430 sq. ft. per application of CARBARYL 2L.			
Apples, pears	Apple Aphid, Apple Rust Mite, Applesucker, Bagworms, California Pearstug (Pear Sawfly), Codling Moth, Eyespotted Bud Moth, Green Fruitworm, Lecanium Scales, Lesser Appleworm, Lygus Bugs, Orange Tortrix, Oystershell Scale, Pear Leaf Blister Mite, Pear Psylla, Pear Rust Mite, San Jose Scale, Tentiform Leafminers, Woolly Apple Aphid	3 to 4	1
WEST OF THE ROCKY MOUNTAINS: To avoid undesired apple thinning, delay use at least 30 days after full bloom. For Psylla control apply when eggs hatch or young nymphs are present.			
Apples, pears	Apple Mealybug, Apple Aphid, Codling Moth, White Apple Leafhopper	2	1
EAST OF THE ROCKY MOUNTAINS: To avoid undesired apple thinning, delay use until at least 30 days after full bloom.			
Apples, pears	Apple Maggot, Apple Rust Mite, Bagworms, Eastern Tent Caterpillar, European Apple Sawfly, Eyespotted Bud Moth, Forbes Scale, Fruit Tree Leafroller, Green Fruitworm, Japanese Beetle, Lecanium Scales, Lesser Appleworm, Oystershell Scale, Pear Psylla, Pear Leaf Blister Mite, Pear Rust Mite, Periodical Cicada, Plum Curculio, Red-banded Leafroller, Rosy Apple Aphid, San Jose Scale, Tarnished Plant Bug, Tentiform Leafminers, Woolly Apple Aphid, Yellow-headed Fireworm	4	1
SPECIFIC DIRECTIONS: For optimum Scale control apply when crawlers are present.			

Crops	Insects	Tsps. / Gal.	PHI (Days)
Citrus Fruit (such as grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron kumquat, and hybrids)	Avocado Leafroller, California Orangedog, Citrus Cutworm, Citrus Root Weevil, Fruitree Leafroller, Orange Tortrix, Western Tussock Moth, West Indian Sugarcane Borer (adult)	4	5
	Black Scale, Brown Soft Scale, California Red Scale, Citricola Scale, Citrus Snow Scale, Yellow Scale.	3 to 4	5
SPECIFIC DIRECTIONS: Do not apply more than 13 fl. ozs. CARBARYL 2L per 430 sq. ft. per application. Do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.			
Filbert	Filbert Aphid, Filbert Leafroller, Filbert Worm	4	0
SPECIFIC DIRECTIONS: Apply when Leafroller eggs are hatching. Repeat on first appearance of Adult Filbert Moths and again 3 to 4 weeks later.			
Olives	Olive Scale	3 to 4	0
SPECIFIC DIRECTIONS: For optimum Scale control add 12 tsps. of summer oil per gallon and apply mixture when crawlers are present. Do not exceed 2 applications per year. Do not apply more than 9.6 fl. ozs. of CARBARYL 2L per 430 sq. ft. per application.			
Peaches, apricots, nectarines	Apple Pandemis, Codling Moth, Cucumber Beetles, European Earwig, Fruitree Leafroller, Japanese Beetle, June Beetles, Lecanium Scales, Lesser Peachtree Borer, Olive Scale, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Plum Curculio, Red-banded Leafroller, San Jose Scale, Tarnished Plant Bug, Tussock Moth, Variegated Leafroller	4	1 (peaches) 3 (apricots, nectarines)
SPECIFIC DIRECTIONS: Do not apply more than 4 fl. ozs. of CARBARYL 2L per 430 sq. ft. per application to apricots. For optimum Scale control apply when crawlers are present. Spray limbs and trunks thoroughly weekly during moth flight.			
Pecans	Black Margined Aphid, Fall Webworm, Hickory Shuckworm, Lesser Webworm, Pecan Leaf Phylloxera, Pecan Nut Casebearer, Pecan Spittle Bug, Pecan Weevil, Twig Girdler, Walnut Caterpillar	4 to 10	0
SPECIFIC DIRECTIONS: Do not apply more than 5 fl. ozs. of CARBARYL 2L per 430 sq. ft. per application.			
Plums, prunes, cherries	Black Cherry Aphid, Brown Soft Scale, Cherry Fruitworm, Cherry Maggot, European Earwig, Eyespotted Bud Moth, Forbes Scale, Fruitree Leafroller, Green Fruitworm, Japanese Beetle, Lecanium Scales, Lesser Peachtree Borer, Mealy Plum Aphid, Oystershell Scale, Peach Twig Borer, Plum Curculio, Prune Leafhopper, Red-banded Leafroller, Rose Chafer, San Jose Scale, Variegated Leafroller	4	1
	Codling Moth, Eastern Tent Caterpillar, Orange Tortrix, Tussock Moth	3	1
SPECIFIC DIRECTIONS: Do not apply more than 4 fl. ozs. of CARBARYL 2L per 430 sq. ft. per application. For optimum Scale control apply when crawlers are present. For Lesser Peachtree Borer control, spray limbs and tree trunks thoroughly, weekly during moth flight.			

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TREES AND ORNAMENTALS

10/11

For dilute spray applications to trees (including shade trees, shelter belts, plantations, parks and recreational areas), ornamentals, woody plants and shrubs, apply the specified dosage per 100 gallons of water in sufficient spray volume to provide thorough coverage. (One teaspoonful equals 0.17 fl. ozs. or 5 milliliters. Three teaspoonfuls equal one tablespoonful).

Crops	Insects	Tsps. / Gal.	PHI (Days)
Walnut	Calico Scale, European Fruit Lecanium, Filbert Worm, Fruit Tree Leafroller, Frosted Scale	2	0
	Codling Moth	2	0
SPECIFIC DIRECTIONS: Apply 3 fl. ozs. of CARBARYL 2L spray per 430 sq. ft. for mature trees. For Codling Moth apply first spray when average cross-sectional diameters of developing nuts is 1/4 to 1/2 inch. Repeat during middle or late June as needed.			
Walnut	European Earwig	8	0
SPECIFIC DIRECTIONS: Spray tree trunks to point of run-off.			

SMALL FRUIT CROPS

Recommended dosages refer to teaspoonfuls of CARBARYL 2L per gallon of water. Use sufficient spray gallonage to obtain thorough coverage. Do not exceed maximum rate of CARBARYL 2L per gallon of spray. (One teaspoonful equals 0.17 fl. ozs. or 5 milliliters. Three teaspoonfuls equal one tablespoonful.)

Crops	Insects	Tsps. / Gal.	PHI (Days)
Blackberries, raspberries, dewberries (including boysenberries & loganberries)	European Raspberry Aphid, Japanese Beetle, Leafhoppers, Leafrollers, Rose Chafer, Snowy Tree Cricket	4 to 8	7
	Omnivorous Leafroller, Raspberry Sawfly	8	
SPECIFIC DIRECTIONS: CALIFORNIA ONLY			
Blueberries	Blueberry Maggot, Cherry Fruitworm, Cranberry Fruitworm, European Fruit Lecanium, Japanese Beetle	8	0
SPECIFIC DIRECTIONS: Apply 3 weeks before harvest and repeat as necessary.			
Cranberries	Cutworms, Cranberry Fireworms, Cranberry Fruitworms, Japanese Beetle, Leafhopper, Rose Chafer	8 to 12	1
SPECIFIC DIRECTIONS: CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. Apply in late bloom and as needed at 7 to 10 day intervals.			
Grapes	European Fruit Lecanium, Grape Leafhopper, Grape Leafroller, Western Grapeleaf Skeletonizer, Western Yellow-striped Armyworm	4 to 8	0
	Cutworms, Eight-spotted Forester, Grape Berry Moth, Japanese Beetle, June Beetle, Orange Tortrix, Omnivorous Leafroller, Red-banded Leafroller, Saltmarsh Caterpillar	8	
SPECIFIC DIRECTIONS: Apply before first brood Leafroller Larvae emerge from rolls.			
Strawberries	Flea Beetles, Meadow Spittlebug, Omnivorous Leafier (Strawberry Fruitworm), Strawberry Leafroller, Strawberry Weevil	4 to 8	1
SPECIFIC DIRECTIONS: CARBARYL 2L May injure Early Dawn and Sunrise varieties on the Delmarva Peninsula.			

Crops	Insects	Tsps./ Gal.
GROUND APPLICATION: Trees (including shade trees, shelter belts, plantations, parks & recreational areas) Ornamentals (including roses, flowers and other herbaceous plants), Woody plants and shrubs.	Ants, Apple Aphid, Armyworm, Azalea Leafminer, Bagworms, Birch Leafminer, Blister Beetle, Boxelder Bug, Boxwood Leafminer, Brown Tail Moth, Cankerworms, Catalpa Sphinx, Chiggers, Cooley Spruce Gall Aphid, Cutworms, Cypress Tip Moth, Douglas Fir Tussock Moth, Eastern Spruce Gall Aphid, Elm Leaf Aphid, Elm Leaf Beetle, Elm Spanworm, Eriophyid Mites, European Pine Shoot Moth, Fall Armyworm, Flea Beetles, Fuller Rose Beetle, Gall Midges, Gall Wasps, Green Striped Mapleworm, Grasshoppers, Gypsy Moth, Hackberry Nipple Gall Maker, Holly Bud Moth, Holly Leafminer, Jackpine Budworm, Japanese Beetle, Jeffrey Pine Needleminer, June Beetle, Lace Bugs, Leafhoppers, Leafrollers, Locust Borer, Mealy Bugs, Maple Leafcutter, Mimosa Webworm, Nantucket Pinetip Moth, Oak Leafminers, Oak Leaf Skeletonizer, Oakworm Complex, Oleander Caterpillar, Oliver Ash Borer, Orange Striped Oakworm, Orange Tortrix, Periodical Cicada, Pine Sawfly, Pine Spittle Bug, Pitch Pine Tip Moth, Plant Bugs, Poinsettia Hornworm, Psyllids, Puss Caterpillar, Redhumped Oakworm, Rose Aphid, Rose Chafer, Roselug, Saddled Prominent Sawflies (exposed), Scale Insects Sowbugs, Spiny Elm Caterpillar, Springtails, Spruce Budworm, Spruce Needleminer, Subtropical Pine Tip Moth, Tent Caterpillars, Thorn Bugs, Thrips (exposed), Ticks, Walnut Caterpillar, Webworms, Western Hemlock Looper, Western Spruce Budworm, Willow Leaf Beetles, Yellow Poplar Weevil	4
SPECIFIC DIRECTIONS: Observe plant response precautions. Apply dilute sprays to obtain thorough coverage of upper and lower leaf surfaces. To control scale insects, treat trunks, stems and twigs in addition to plant foliage. For optimum worm control, treat when in early instars. Addition of a slicker may improve residual control.		
GROUND APPLICATION: Trees (including shade trees, shelter belts, plantations, parks & recreational areas) Ornamentals (including roses, flowers and other herbaceous plants), Woody plants and shrubs.	Ips Engraver Beetles, Mountain Pine Beetle, Roundheaded Pine Beetle, Western Pine Beetle	(13.3 ozs./gal.)
SPECIFIC DIRECTIONS: Effective as a preventative treatment only. Repeat annually as required to prevent Beetle attacks. Apply 1 gallon of spray per 50 sq. ft. of bark in late May to early July, or prior to Beetle attack. Treat tree trunks from ground level up, until trunk diameter is less than 5 inches.		

LAWNS AND RECREATIONAL AREAS

Crops	Insects	Specific Directions
Lawns and Recreational Areas (including turf, golf courses, and parks)	Ants, Armyworm, Bluegrass Billbug, Centipedes, Chiggers, Cutworms, Earwigs, Essex Skipper, European Chafer, Fall Armyworm, Fiery skipper, Fleas, Grasshoppers, June Beetles, Leafhoppers, Lucerne Moth, Millipedes, Mosquitoes, Sod Webworm (Lawn Moths), Sowbugs, Springtails, Ticks, Yellow Striped Armyworm.	Use 2 quarts of CARBARYL 2L in 150 to 200 gallons of spray mixture per 5,000 square feet of established lawn, recreational area, roadway or path border. For best results, mow lawn and apply after wetting or rain to ensure good penetration of turf. Garden hose or pressure applications may be used. Repeat 2 or 3 weeks later if necessary.
	Chinch Bugs, White Grubs	Use 3 quarts of CARBARYL 2L in 150 to 200 gallons of spray per 5,000 square feet.

MOSQUITO CONTROL

For dilute spray ground applications to trees (including shade trees, shelter belts, plantations, parks and recreational areas), ornamentals, woody plants and shrubs, apply the specified dosage per 1 gallon of water. Avoid direct application to lakes, streams and ponds.

Crops	Amount Per Gal.	Specific Directions
Yards and Recreational Areas	1 to 2 lbs. / gal. 16 oz. / gal.	ADULT MOSQUITOS: Caution: May kill shrimp and crabs. Do not use where these are important resources. Treat shrubbery and areas where adult Mosquitoes aggregate. Treat when adult Mosquitoes are active in early mornings or late evening. Repeat at 7 to 10 day intervals. For residual control in subtropical regions apply 4 gallons of prepared spray per 2000 square feet of surface areas. Repeat in 3 to 6 months or when necessary.

PEST CONTROL AROUND BUILDINGS
LIMITED TO PEST CONTROL OPERATORS ONLY

Insect	Amount Per Gal.	Specific Directions
Ants, Cockroaches	17 ozs. / gal.	For use in and around buildings such as homes, apartments, warehouses, barns, and municipal and recreational areas. Apply as a coarse wet spray or with a paint brush to outdoor sleeping quarters of pets, outside perimeter of dwellings and other areas where insects tend to congregate. Do not use in food areas or food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed.
Brown Dog Tick, Earwigs, Fleas, Millipedes, Silverfish,	7 ozs. / gal.	

POULTRY INSECT CONTROL

Poultry	Insect	Specific Directions
Chickens, ducks, geese, gamebirds, pigeons, turkeys,	Chicken Mite, Fleas, Lice, Northern Fowl Mite	For Use As A Direct Mist Spray On Birds By: 1. Misting with Electric Fog Machine: Mix 20 ozs. of CARBARYL 2L in 1 gallon of spray. Use 1½ gallons per 1,000 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary, or 2. Spraying with knapsack or cylinder type compressed air sprayers: Mix 12 ozs. of CARBARYL 2L in 5 gallons of spray. Use 1 gallon per 100 hens in cages, on litter or slatted floor. Repeat in 4 weeks if necessary. Direct mist spraying for Chicken Mite and Fleas is a supplement to spraying roosts and buildings for control of these pests. Do not apply to poultry and game birds within 7 days of slaughter.

POULTRY ROOSTS AND BUILDINGS ONLY

Insects Poultry Quarters	Amount Per Gal.	Specific Directions
Bed Bugs, Chicken Mite, Fleas, Lice, Northern Fowl Mite	5 tbsp. / gal.	Apply 12 to 25 ozs. of spray mixture per 100 sq. ft. of wall, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid contamination of nests, eggs and feeding and water troughs.
Fowl Tick	10 ozs. / gal.	Ventilate while spraying. Do not treat premises within 7 days of slaughter.
Lesser Mealworms	33 ozs. / gal.	Apply 25 ozs. of spray mixture per 100 sq. ft. of floor space or litter surface. Repeat as needed. Ventilate while spraying. Do not treat premises within 7 days of slaughter.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE INSTRUCTIONS

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Move containers by handles or cases. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with acids and alkalis. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

1. Contain spill, absorb with a material such as sawdust, clay granules, or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer the contents as soon as possible to an empty original container.
6. Do not allow run off to enter sewer or contaminate water supplies.
7. Dispose of wastes as indicated below.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY—CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by Drexel Chemical Company and is accepted as such by the Buyer