

MACCO

CARBARYL 4L

Carbaryl Insecticide

ACTIVE INGREDIENTS: Carbaryl (1-naphthylmethylcarbamate) . . . 43.4%
INERT INGREDIENTS: . . . 56.6%
Product contains 4 pounds carbaryl as active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Page 1 of Booklet For Precautionary Statements and
Statement of Practical Treatment

EPA Reg. No. 36480-39

EPA Est. No. 387535

NET CONTENTS 2½ GALLONS

Manufactured by

MACCO

MID AMERICA CHEMICAL CO. INC.
402 South Fifth Street
Leavenworth, Kansas 66048

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

HARMFUL IF SWALLOWED — Avoid Breathing of Spray. Do Not Take Internally. Avoid Contact with Skin and Eyes. Wear regular long-sleeved work clothing. Change to clean clothing daily. Wash hands and face before eating. Wash thoroughly after handling.

NOTE TO PHYSICIAN — Carbaryl is a moderate reversible cholinesterase inhibitor. Atropine is antidotal. Do Not Use 2-PAM, opiates or cholinesterase inhibiting drugs.

Statement of Practical Treatment

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 — Remove contaminated clothing and wash skin with soap and plenty of water. If irritation develops get medical attention.

IF IN EYES — Immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops get medical attention.

Environmental Hazards

Avoid application to lakes, streams and ponds. Do not apply when weather conditions favor drift from areas treated. May kill shrimp and crabs. Do not apply where these are important resources. Do not contaminate water by cleaning equipment or disposal of wastes.

BEE CAUTION — May kill honeybees in substantial numbers. This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Extension Service. Do not use when the value of honeybees as pollinators is more important than insect control. Before applying warn beekeepers to locate hives beyond bee flight range until one week after application or to take other equally effective precautions.

GENERAL INFORMATION

CARBARYL 4L is a suspension of methidathion carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which, when applied by air or ground equipment, resists erosion by rainfall or overhead irrigation. The directions on this label are based on tests and field experience relating to (a) effectiveness, (b) possible injury to plants and (c) residues in food, feed and milk. **READ THIS LABEL BEFORE USE. STRICTLY OBSERVE LABEL DIRECTIONS AND CAUTIONS AND APPLICABLE FEDERAL AND STATE REGULATIONS.**

Treated areas may be re-entered immediately after the spray has dried.

PRE-HARVEST AND GRAZING USE INFORMATION AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of crops bearing probable carbaryl residues when this product is used in accordance with label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. This product may be applied up to and including the day of grazing of forage crops. Application may be made without removing livestock from areas being treated.

PLANT RESPONSE PRECAUTIONS

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 injures Boston Ivy, Virginia creeper and mandarin tree. During early season, it may also injure Virginia and sand pines. Observe label instructions on apple blawing and on combinations with certain herbicides on rice and soybeans.

SPRAY PREPARATION

TO ASSURE UNIFORM PRODUCT AGITATE, STIR OR RECIRCULATE ALL **CARBARYL 4L** CONTAINERS PRIOR TO USE. Remove oil, rust, scale, pesticide residues and other foreign matter from mix tanks and entire spray system. Flush with clean water.

Fill spray or mix tank with 1/2 to 1 1/2 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of **CARBARYL 4L** and then the remaining volume of water. Include rinse water from container. Dilution of 1 volume **CARBARYL 4L** with 1 volume of water will allow maximum resistance to wash off by rainfall or overhead irrigation. Dilutions higher than 1:1 are not recommended where residual insect control from wash off resistance is desired. Prepare only as much spray mixture as can be applied on the day of mixing. MAINTAIN CONTINUOUS AGITATION DURING MIXING AND APPLICATION TO ASSURE A UNIFORM SUSPENSION. DO NOT STORE SPRAY MIXTURES FOR PROLONGED PERIODS.

COMPATIBILITY

CARBARYL 4L 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. Compatibility of Carbaryl 4 Flowable with another product and the resulting crop response is unknown. It should be tested on a small scale. Corrosion, precipitation, gelling, layer formation or increased viscosity are symptoms of incompatibility. **WHEN PREPARING COMBINATION SPRAYS, FIRST ADD CARBARYL 4L TO AT LEAST AN EQUAL VOLUME OF WATER, MIX THOROUGHLY, AND THEN ADD COMBINATION PRODUCTS TO THE MIXTURE. DO NOT APPLY TANK MIX 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 material such as bicarbonate lime-sulfur and calcium lime spreaders.

APPLICATION

On all crops, use sufficient gallonage to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required amount. The flow rate of **CARBARYL 4L** Use 50 mesh slotted strainers in spray system and behind nozzles. To clean spray system after use, drain and flush with water.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

INSECT CONTROL

Apply when insects or their damage appears. To maintain control repeat at 7 to 14 day intervals. Range is indicated, use lower rate on young plants and early instars and higher rate on mature plants. Essential for effective control.

CARBARYL 4L does not control spider mites. If spider mites are a problem, use a registered acaricide.

FORAGE, FIELD AND VEGETABLE

Apply in sufficient spray volume to obtain thorough coverage. Where maximum wash off resistance is indicated, use lower rate on young plants and early instars and higher rate on mature plants. Rates of 1 quart per acre or 1 quart per 100 gallons are indicated in the table below.

CROP	INSECT	QUARTS OF CARBARYL 4L/ACRE
All Forage, Field and Vegetable Crops Section	Grasshoppers	1 to 1 1/2
Alfalfa Clovers	Blister beetles Mexican bean beetle	1/2 to 1
	Alfalfa caterpillar, Bean leaf beetle, Cucumber beetle, Green cloverworm, Japanese beetle, Leafhoppers, Three-cornered alfalfa hopper, Thrips, Velvetbean caterpillar	1
	Alfalfa weevil larvae, Armyworm, Cloverhead weevil, Corn earworm, Cutworm, Egyptian alfalfa weevil larvae, Essex skipper, European alfalfa beetle, Fall armyworm, Lygus bugs, Slink bugs, Webworms, Yellow-striped armyworm	1 to 1 1/2
Asparagus	Asparagus beetle	1 to 2
	Asparagus beetle Asparagus beetle	2 to 4

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387

CROP	INSECT	QUARTS OF CARBARYL 4L / ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Beans (including black-eyed peas, cowpeas, crowder or southern peas, dry beans, green beans, lima beans, navy beans and snap beans)	Beetle beetles Mexican bean beetle	1/2 to 1	0	Observe plant response precautions
	Adults caterpillar, Bean leaf beetle, Cucumber beetles, Flea beetles, Green cloverworm, Japanese beetle, Leafhoppers, Three cornered alfalfa hopper, Tingo Velvetbean caterpillar, Western bean cutworm	1		
	Armyworm, Corn earworm, Cutworms, European corn borer, Fall armyworm, Stink bugs, Tarnished plant bug, Webworms	1 to 1 1/2		
	Compsa curculio	2		
	Corn earworm, Lima bean pod borer, Lygus bugs, Stink bugs	2		
Cabbage Broccoli Brussels Sprouts Cauliflower Kohlrabi	Flea beetles Harlequin bug	1/2 to 1	3	C
	Armyworm, Corn earworm, Fall armyworm, Imported cabbageworm	1 to 2		
Chinese cabbage Collards Manchurian salad Horse radish Kale Mustard greens Rutabagas Rutabagas Turnips	Flea beetles, Harlequin bug, Leafhopper	1/2 to 1	3 (harlequin, rutabagas, rutabagas and turnip roots) 14 (Chinese cabbage collards, Manchurian salad, kale, rutabagas, greens, and turnip tops)	
	Aster leafhopper	1 to 1 1/2		
	Armyworm, Corn earworm, Fall armyworm, Imported cabbageworm, Stink bugs, Tarnished plant bug	1 to 2		
Carrots, Parsnips Parsley	Flea beetles, Leafhoppers	1/2 to 1	0 (carrots) 3 (parsnips) 14 (parsley)	Treat on a 5 to 7 day schedule
	Aster leafhopper, Lygus bugs, Spittlebugs	1 to 1 1/2		
	Armyworm, Corn earworm, Fall armyworm, Stink bugs, Tarnished plant bug	1 to 2		

CROP	INSECT	QUARTS OF CARBARYL 4L / ACRE	PRE-HARVEST INTERVAL (DAYS)
Corn (field sweet pot)	Armyworm, Corn earworm, Corn rootworm adults, European corn borer, Fall armyworm, Flea beetles, Japanese beetle, Sap beetles, Southwestern corn borer, Leafhoppers	1 to 2	0
	Western bean cutworm	2	
	Cutworms	2 to 6 1/2	
Cotton	Cotton leafhopper, Cotton leafworm, Flea beetles, Striped thrips beetle, Tingo	1/2 to 1	0
	Beet weevil, Bollworms, Cotton leafroller, Fall armyworm, Leafhoppers, Leafhoppers, Tarnished plant bug, Yellow striped armyworm (cotton cutworm)	1 to 2	
	Lygus bugs	1 to 2	
	Pink bollworm	1 1/2 to 2 1/2	
	Stink bugs, Spittlebug, caterpillar	2	
	Pickworm, Motormoth	1/2 to 1	
Cucumber Melons Pumpkin Squash	Cucumber beetles, Flea beetles, Leafhoppers, Squash bugs	1	0
Dandelion (Endive) (Escarole) Lettuce Salady	Flea beetles, Harlequin bug, Leafhoppers	1/2 to 1	
	Aster leafhopper, Lygus bugs, Spittlebugs	1 to 1 1/2	
	Armyworm, Corn earworm, Fall armyworm, Imported cabbage worm, Stink bugs, Tarnished plant bug	1 to 2	

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437

CROP	INSECT	QUARTS OF CARBARYL 4L/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Forage Grasses Pasture	Armyworm, Black grass bug, Chinch bugs, Essex skipper, Fall armyworm, Rumpie cater- pillars, Range crane fly, Striped grass weaver, Thrips	1 to 1½	0	To control thrips in grasses grown for seed use high spray pressure to improve penetration into leaf
	White grubs (green June beetle)	1½ to 2		
Garden beet Spinach Sweet chard	Flot beetles, Hairygreen & Leafhoppers	½ to 1	3 (garden beet roots)	Treat on a 5 to 7 day schedule
	Aster leafhopper	1 to 1½	14 (garden beet top., Spinach Sweet chard)	
	Armyworm, Corn earworm, Fall armyworm, Stink bugs, Tarnished plant bug	1 to 2		
Oats	Corn earworm, Stink bugs	1 to 2	0	Treat on a 5 to 7 day schedule
Peas	Blister beetles, Mexican bean beetle	½ to 1	0	Observe plant response precautions
	Athlete caterpillar, Bean leaf beetle, Cucumber beetle, Green cloverworm, Japanese beetle, Leaf hoppers, Red-necked grasshopper, Three-cornered alfalfa hopper, Thrips, Velvetbean caterpillar	1	0	
	Armyworm, Corn earworm, Fall armyworm, Stink bugs, Webworms	1 to 1½		
	White-winged beetle adults, Cutworms	2		
Peas	Colorado potato beetle, Leafhoppers	1	0	WASHINGTON STATE ONLY
	Armyworms	1 to 1½		
	Athlete caterpillar, Cutworms, Pis leaf weevil, Pis. weevil, Yellow striped armyworm	1½		
	Athlete leger	2½		
Potato Tomato Eggplant Pepper	Colorado potato beetle, Flea beetles, Leafhoppers	½ to 1	0	
	European corn borer, Fall armyworm, Late bugs, Stink bugs, Tarnished plant bug, Tomato fruitworm, Tomato hornworm, Tomato pinworm	1 to 2	0	
	Cutworms	2		
Peas	Armyworm, Chinch bugs, Fall armyworm, Stink bugs	1 to 1½	1*	DO NOT APPLY PROPANIL HERBICIDE WITHIN 15 DAYS BEFORE OR AFTER CARBARYL 4 FLORABLE APPLICATION OR PLANT PLAUY WILL RESULT MISSISSIPPI DELTA & TEXAS

CROP	INSECT	QUARTS OF CARBARYL 4L/ACRE	PRE- INTERV
Corn	Armyworm, Leafhoppers, Tobacco thrips	2	14
Sorghum (milo, grain sorghum sweet sorghum and hybrids)	Armyworm, Chinch bugs, Corn earworm, Fall armyworm, Stink bugs, Webworms	1 to 2	21 (grain) 0 (forage)
	Sorghum midge, Southwestern corn borer	1½	
	Cutworms	2	
Soybeans	Bean leaf beetle, Cucumber beetles, Green cloverworm, Mexican bean beetle, Velvetbean caterpillar	½	0
	Corn earworm	½ to ¾	
	Blister beetles, Grape colletes, Mexican bean beetle	½ to 1	
	Athlete caterpillar, Bean leaf beetle, Cucumber beetle, Green cloverworm, Japanese beetle, Leafhoppers, Three- cornered alfalfa hopper, Thrips, Velvetbean caterpillar	1	
	Armyworm, Corn earworm, Cutworms, Fall armyworm, Stink bugs, Webworms	1 to 1½	
Sugar beets	Armyworm, Bean leaf beetle, Fall armyworm, Flea beetle, Leafhoppers, Webworms	1 to 1½	14
	Cutworms	1½	
Tobacco	Tobacco flea beetle	2 lbs/gallon or 1 qt /50 gal or 6 gal/100 sq yards	3

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CROP	INSECT	QUARTS OF CARBARYL 4L/ACRE	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
CORN	Green June beetle grub	1 qt - 100 gallons	0	Apply only to areas that larvae have appeared by spraying as a drench with 50 to 100 gallons per 100 square yards.
	Budworms, Fall armyworms, Flea beetles, Hornworms, Japanese beetle, June beetle, Suckly	1 to 2		IN FIELDS Use lower rate on young plants (up to knee height). Use at least 10 gallons of prepared spray per acre. Begin treatments when worms are small. If late season applications are necessary, allow three days before pruning or cutting.

TREE FRUIT AND NUT CROPS

For dilute sprays apply the specified dosage per 100 gallons of water. For concentrate and aerial sprays increase the concentration of CARBARYL 4L in the spray mixture to apply an amount per acre equivalent to that in a dilute spray. The optimum spray gallonage will depend on tree size, density and stage of growth. Typical spray gallonages per acre range from 200-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	QUARTS OF CARBARYL 4L/100 GAL	PRE-HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
APPLE THINNING			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 soil favor excessive fruit thinning with CARBARYL 4L, exercise caution to avoid possible yield reduction.
Apples only	1/2 to 1	1	For easily thinned varieties including Cortland, Gravenstein, Jonathan, McIntosh, Orleans, Rome Beauty, Purdie, Red Delicious, Winesap, Yellow Newton.
	1/2 to 1	1	For difficult to thin varieties including Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Staked Red, Turkey, Wealthy, Yellow Transparent and York Imperial.

CROP	INSECT	QUARTS OF CARBARYL 4L/100 GAL	PRE-HARVEST INTERVALS (DAYS)	SPECIFIC DIRECTIONS
Almond	Peach long horn, San Jose scale, Fruittree leafroller	1	20	Apply in post-bloom or petal fall stages and again when the late brood of the peach long horn begins to hatch or thereafter as needed.
	Navel orangeworm			Time early and mid season applications to correspond to moth flight peaks. Make a late season application at initiation of full split or up to 10% full split. Do not apply more than 5 quarts per acre.

CROP	INSECT	QUARTS OF CARBARYL 4L/100 GAL	PRE-HARVEST INTERVAL (DAYS)
Apples Pears	Apple aphid, Apple root mite, Apple sucker, Bagworms, California pearling (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, Tenthredin leafminers, Woolly apple aphid	1/2 to 1	1
	Apple maggot, Apple aphid, Codling moth, White apple leafhopper	1/2	
	Apple maggot, Apple root mite, Bagworms, Eastern tent caterpillar, European apple sawfly, Eyespotted bud moth, Foxglove 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, Rose apple aphid, San Jose scale, Tarnished plant bug, Tenthredin leafminers, Woolly apple aphid, Yellowheaded borer	1	1
Citrus fruit (such as grapefruit, lemons, oranges, tangerines, citrus citron, lemons and hybrids)	Avocado leafroller, California orangebug, Citrus cutworm, Citrus root weevil, Fruittree leafroller, Orange tortrix, Western tent caterpillar, West Indian sugarcane borer (larvae)	1	5
	Black scale, Brown soft scale, California red scale, Citrus scale, Citrus snow scale, Yellow scale	1/2 to 1	
Filbert	Filbert aphid, Filbert leafroller, Filbertworm	1	0
Olive	Olive scale	1/2 to 1	0
Peaches Apricots Nectarines	Apple glandular, Codling moth, Cucumber beetle, European pearling, Fruittree leafroller, Japanese beetle, June beetle	1	1 (peaches)

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CROP	INSECT	QUARTS OF CARBARYL 4L/100 GAL	PRE HARVEST INTERVALS (DAYS)	SPECIFIC DIRECTIONS
COM	Lecanium scales Lesser peach tree borer Olive scale Orange tortrix Oriental fruit moth Peach twig borer Periderid cocoon Plum curculio Red banded leafhopper San Jose scale Tarnished plant bug Tawny mealy bug Variegated leafhopper	1	3 (apples & peaches)	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 thicketworm Lesser webworm Pecan leaf phylloxera Pecan nut casebearer Pecan sprouting bug Pecan weevil Tong girdler Walnut caterpillar	1 to 2 1/2	0	Do not apply more than 7.2 quarts of CARBARYL 4L per acre per application.
Plums Prunes Cherries	Black cherry aphid Brown soft scale Cherry fruitworm Cherry maggot European earwig Eyespotted bud moth Forbes scale Fruit tree leafroller Green fruitworm Japanese beetle Lecanium scales Lesser peachtree borer Mealy plum aphid Nymphalid scale Peach twig borer Plum curculio Prune leafhopper Redbanded leafroller Rose chaffer San Jose scale Variegated leafhopper Coddling moth Eastern tent caterpillar Orange tortrix Tobacco moth	1 1/2	1	Do not apply more than 6 quarts of CARBARYL 4L per acre 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.
Walnut	Crab scale European fruit Lecanium Filbertworm Fruit tree leafroller Frosted scale Coddling moth European earwig	1/2 1/2 2	0	Apply 5 quarts of CARBARYL 4L spray per acre for mature trees. For coddling moth apply first spray when average cross-sectional diameters of developing nuts are 1/4 to 1/2 inch. Repeat during middle or late June as needed. Spray tree trunks to point of run-off.

Recommended dosages refer to quarts of CARBARYL 4L per acre. The optimum spray gallonage will depend on plant size, density and stage of growth. Typical spray gallonage per acre range from 100-300 gallons for dilute sprays, 30-100 gallons for concentrate sprays and 10-25 gallons for aerial sprays. Do not exceed maximum label rate per acre per application.

CROP	INSECT	QUARTS OF CARBARYL 4L/ACRE	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Blackberries Raspberries Dewberries (including boysenberries and loganberries)	European raspberry aphid Japanese beetle Leafhoppers Leafrollers Rose chaffer Snowy tree cricket Omnivorous leafhopper Raspberry sawfly	1 to 2 2	7	CALIFORNIA ONLY

CROP	INSECT	QUARTS OF CARBARYL 4L/ACRE	PRE HARVEST INTERVAL
Blast trees	Bluishberry maggot, Cherry fruitworm, Cranberry fruitworm, European fruit lecanium, Japanese beetle	1 1/2	0
Cranberries	Caterworms, Cranberry fruitworms, Cranberry fruitworms, Japanese beetle, Leafhopper, Rose chaffer	1 1/2 to 3	1
Grapes	European fruit lecanium, Grape leafhopper, Grape leafhopper, Western grapeleaf skeletonizer, Western yellow-striped armyworm Caterworms, Eight-spotted forester, Grape berry moth, Japanese beetle, June beetle, Orange tortrix, Omnivorous leafhopper, Redbanded leafhopper, Saltmarsh caterpillar	1 to 2 2	0
Strawberries	Flea beetles, Meadow sprouting omnivorous leafhopper (strawberry fruitworm), Strawberry leafhopper, Strawberry weevil	1 to 2	1

TREES AND ORNAMENTALS

For dilute spray ground applications to trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas) specified dosage per 100 gallons of water. For concentrate spray ground applications, apply the specified dosage per acre in 1 prepared small volumes of spray, use 1 tablespoon (1/2 fluid ounce) of CARBARYL 4L per gallon of water where it is applied. For applications to forest trees (including shade trees, shelter belts, plantations, parks and recreational areas) and ornamentals, specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lab.

CROPS	INSECTS	QT OF CARBARYL	
GROUND APPLICATION Trees (including shade trees, shelter belts, forest, plantations, parks and recreational areas) Ornamentals (including roses, flowers and other herbaceous plants), Woody plants and Shrubs	Ants Apple aphid Armyworm Aster leafminer Bagworms Birch leafminer Blister beetle Boulder bug Burrhead leafminer Brown tail moth Caterworms Caterpillar Chiggers Coddling spruce girdler Caterworms Cypress W. moth Douglas fir Lambert's silk Eastern spruce girdler Eve leaf aphid Fem leaf beetle Fem sawfly	Grasshoppers Gypsy moth Hickberry apple gall weaver Holly leaf moth Holly leafminer Jackpine budworm Japanese beetle Jeffrey pine needleminer June beetle Lace bugs Leafhoppers Locust borer Mealy bugs Minnow webworm No tickle pine Oak leafminer Oak leaf skeletonizer Oatworm complex Oriental caterpillar Olive ash borer	Plant bugs Punnett hornworm Pyralis Pine caterpillar Redhumped caterpillar Rose aphid Rose chaffer Rosebug Sawfly Scarf (cypress) Scale insects Sawbugs Spruce elm caterpillar Springtails Spruce budworm Spruce needle-miner Subtropical pine tip moth Tent caterpillars Thorn bugs Tinge (cypress) Tilia Walnut caterpillar Webworms

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CROP	INSECT		QT OF CARBARYL 4L	SPECIFIC DIRECTIONS
AERIAL APPLICATION Forest trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas) and Commercially grown Ornamentals (including roses, Rebutia and other herbaceous plants), Woody Plants and Shrubs	Enophya mites European spruce sawfly Fall armyworm Hickory leaf beetle Fuller rose beetle Gall midges Gall wasps Green striped mame worm	Orange striped oakworm Orange tortrix Periodical cicada Pine sawfly Pine sawfly Pitch pine tip moth	1	
	Yps engraver beetles Mountain pine beetle Rounded pine beetle Western pine beetle	Western hemlock looper Western spruce budworm White leaf beetles Yellow poplar weevil	20	Effective as a preventative treatment only. Repeat annually as required to prevent beetle attacks. Apply 1 gallon of spray per 50 square feet 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

CROP	INSECT		SPECIFIC DIRECTIONS
Lawns and Recreational Areas (including turf golf courses and parks)	Ants Armyworm Bluegrass cutting Carpetweaver Earwigs Essex Fall armyworm Fairy shagger Hickory leaf beetle Grasshoppers June	beetles Leafhoppers Lucerne moth Meadow katydid Mosquitoes Sod webworm (lawn mites) Sawflies Springtails Ticks Yellow striped armyworm	Use 1 quart of CARBARYL 4L in 150 to 200 gallons of spray mixture per 5 000 square feet of established lawn, recreational area, roadsides, etc. For best results, mow lawn and apply after wetting or rain. Good penetration of turf. Garden hose or pressure applications may be used. Repeat 2 to 3 weeks later if necessary.
	Chinch bugs Lawn grubs		Use 1 1/2 quarts of CARBARYL 4L in 150 to 200 gallons of spray per 5 000 square feet.

INSECTS CONTROL

For adult spray ground applications to trees (including shade trees, shelter belts, forests, plantations, parks and recreational areas), ornamentals, woody plants and shrubs, apply the specified dosage per 100 gallons of water. For concentrate spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. To prepare small volumes of spray, use 1 tablespoon (1 1/2 fluid ounces) of CARBARYL 4L per gallon of water, where rates of 1 quart are indicated.

For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and recreational areas) and commercially grown ornamentals, woody plants and shrubs, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds.

CROP	QUARTS OF CARBARYL 4L	SPECIFIC DIRECTIONS
Pastures Rangelands Yards, Parks Recreational Areas Logging Camps Military Posts and Adjacent Forested lands or Wastelands	1/2 to 1 1/2 to 1 tablespoonful per gallon	DO NOT USE WHERE SHRIMP AND CRABS ARE IMPORTANT RESOURCES. OBSERVE BEE CAUTION. Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early mornings or late evening. Repeat at 7 to 10 day intervals. Use 1/4 to 1/2 quart per 100 gallons in backpackers, 1/2 to 1 quart per acre in aerial sprays and 1 quart per acre in low pressure ground sprayers.
	25	For residual control in sub-tropical regions apply 4 gallons of prepared spray per 2000 square feet of surface area. Repeat in 3 to 6 months or when necessary.

PEST CONTROL AROUND BUILDINGS

INSECT	QUARTS OF CARBARYL 4L / 100 GAL.	SPECIFIC DIRECTIONS
Ant C	20 (17 tablespoons/gallon)	For external use around buildings. Apply as a coarse wet spray or quarters of pets, outside perimeter insects tend to congregate. Do not use where edible produce is served. Avoid application to surfaces where food is prepared.
Brown dog tick Earwigs Flies Housefly Silverfish	20 (17 tablespoons/gallon)	

POULTRY QUARTERS AND BUILDINGS ONLY

POULTRY QUARTERS	QUARTS OF CARBARYL 4L/ACRE	SPECIFIC DIRECTIONS
Bed bugs Chicken mite Flies Lice Northern louse	4	DO NOT TREAT POULTRY OR OTHER ANIMALS. Apply 1 to 2 gallons of spray mixture per 1000 square feet of surface. Force air circulation. Avoid contamination of nests. Ventilate while spraying. Do not use on birds.
Fowl tick	16	
Lesser meadowbug	50	Apply 2 gallons of spray mixture per 1000 square feet of surface. Repeat as needed. Ventilate while spraying. Do not use on birds.

STORAGE AND DISPOSAL

Store unused CARBARYL 4L in original container only, in cool, dry area out of the reach of children and away from heat. Do not store in frequently exposed 100°F.

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide, spray mixture, or residue that cannot be used according to label instructions must be disposed of according to the Resource Conservation and Recovery Act.

Dispose of bags according to approved Federal, State or local procedures under the Resource Conservation and Recovery Act. Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill.

WARRANTY

The manufacturer guarantees and warrants (a) that the active ingredient content and the net weight are as stated within the statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness of toxicity to labor, and upon reports of field experience. Tests have not been made on all varieties or in all states.

The manufacturer further warrants that the material herein is reasonably fit for use under normal conditions as directed hereon or representative to make any such statement of FITNESS OR MERCHANTABILITY, guarantee or representation, express or implied, on the basis that buyer assumes all risks of use of handling which result in loss or damage and which are beyond manufacturer's control or negligence shall be greater in amount than the purchase price of the material in respect of which such claim is made. In no event shall the manufacturer be liable for consequential damages resulting from the use or handling of this material.

No modification of this warranty and disclaimer is authorized except by specific reference to them in writing by an employee of the manufacturer.

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