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ACCEPTED
with COMMENTS
by EPA on 3/1/75 Date:

MAR 09 1975



Carbaryl 80S

A Wettable Powder for Control Of Insect Pest

ACTIVE INGREDIENT:
Carbaryl (1-naphthylmethylcarbamate) 80%
INERT INGREDIENTS: 20%
TOTAL: 100%

Keep Out Of The Reach Of Children
WARNING/AVISO:

PRECAUTIONAL USE: A: Si usted no le entiende este producto hable con el etiquetista haya sido explicado ampliamente.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: Warning: Area treated with carbaryl on (date of application). Do not enter without appropriate protective clothing until sprays have dried.

Carbaryl 80 Sprayable is a dry powder for dispersion in water and application as an insecticidal spray in hydraulic sprayers, mist blowers, low-gallonage ground equipment and aircraft. USE IN STRICT ACCORDANCE WITH LABEL DIRECTIONS AND CAUTIONS.

Special Directions for Preparing Low-Gallonage Spray: In low-gallonage ground equipment, use 50-mesh or coarser screens in entire system; nozzles should be cone type, number 3 or larger. Use clean equipment. Put about 1/4 of the required water volume in the spray tank. Close off booms, start pump and maintain moderate by-pass agitation while slowly adding the proper amount of Carbaryl 80 Sprayable. Add remaining water and continue to recirculate until suspension is uniform; then apply using at least 3 gallons per acre of the prepared spray. After spraying, flush tank and lines with clear water.

For aircraft application: For preparing spray in mixing or storage tank, follow above directions. To maintain uniform suspension, recirculate at intervals and before pumping into aircraft tank. For best results, use clean equipment and apply at least 1 gallon per acre of the prepared spray. After spraying, flush tanks and lines with clear water.

Combination spray mixtures in low-gallonage equipment and aircraft: Physical compatibility of Carbaryl 80 Sprayable with other pesticides in low-gallonage mixtures is not fully known. Before preparing large amounts, combinations should be tested by fully dispersing Carbaryl 80 Sprayable, then adding the other pesticide and the remaining portion of water. DO NOT USE MIXTURES

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: May be harmful if swallowed. Avoid breathing vapors. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not use this product in commercial food areas or food handling establishments, restaurants, or other places where food is prepared or processed.

NOTE TO PHYSICIAN: Carbaryl is a moderate reversible cholinesterase inhibitor. Atropine is antidote. DO NOT use 2-PAM, opiates or cholinesterase-inhibiting drugs.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Induce vomiting by placing finger or 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 contamination of food, feed, water supplies, during application or when cleaning equipment. May kill shrimp and crab. Do not apply when weather conditions favor drift from areas treated.

This pesticide is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water or wetlands. 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. Protective information may be obtained from your Cooperative Agricultural Extension Service.

DO NOT use when value of bees as pollinators is more important than insect control. Before applying warn Beekeepers to locate their hives beyond bee flight range until 1 week after application or to take other equally effective precautions.

DO NOT CURDLE OR PRECIPITATE. Incompatibility will reduce insect control and may cause mechanical difficulties or plant injury. Use caution when applying concentrate spray mixtures. Under adverse growing conditions, combination of Carbaryl 80 Sprayable with some phosphate pesticides may cause foliar injury.

COMPATIBILITY

1. Carbaryl 80 Sprayable has been effectively used without plant injury with most common insecticides, miticides, fungicides, nutrients, adjuvants and with petroleum oil as used on citrus.
2. Compatibility can be affected by water in your locality, various surfactants and other formulation ingredients. Possible plant injury may occur under adverse conditions such as high humidity, drought, improper fertilization, etc.

3 Do not mix Carbaryl 80 Sprayable with nutrients, adjuvants and other pesticides unless your experience indicates that the mixture is effective and will not result in plant injury. If uncertain, prepare a small amount of the mixture and test on a representation portion of the crop.

4 Unstable under highly alkaline conditions. Not effective if used with alkaline materials such as Bordeaux, lime, lime sulfur and casein-lime spreaders.

GENERAL CAUTIONS

1 To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days.

2 Does not control spider mite but is compatible with most common miticides.

IMPORTANT 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 80 Sprayable residues when Carbaryl 80 Sprayable is used in accordance with label directions. Pre-harvest and grazing use limitations are listed at the end of the directions for each crop use. Where no pre-harvest or grazing time limitations are stated, application can be made to the day of harvest and crops can be grazed without time delay if directions for use on the crops are followed.

If Carbaryl 80 Sprayable Insecticide is used in accordance with label directions, forage and feed crops, cotton forage, soybean hay, may be grazed or harvested forage and feed crops, including almond hulls, bean vines, carrot tops, citrus pulp, cotton forage, cowpea hay, peanut hay, pea vines, rice straw, soybean hay and sugar beet tops, may be grazed or harvested for use as feed for dairy and meat animals without resulting in residues in milk or meat.

DIRECTIONS FOR USE

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

Subsequent planting of food and feed crops in treated soil must be made with crops on this or other carbaryl labels.

IMPORTANT: The directions on this label are based on tests and field experience relating to (a) effectiveness, and (b) possible injury to plants and animals, and (c) residues in food, feed, meat and milk. Follow directions for most effective use.

FORAGE, FIELD AND VEGETABLE CROP CONTROL

Recommended dosages refer to pounds of Carbaryl 80 Sprayable per acre. Where a dosage range is indicated, use lower rate on young plants, higher rates on mature plants. Use sufficient spray gallonage to obtain full coverage. This will usually vary from 3 to 40 gallons per acre depending on equipment, degree of insect infestation, and stage of crop growth. Keep spray mixtures well agitated. Apply when insect or their damage appears and repeat at 7 to 14 day intervals or as necessary unless shorter intervals are specified below.

See specific directions below for grasshopper control.

Alfalfa and Clovers—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for blister beetles and Mexican bean beetle. Use 1 $\frac{1}{4}$ pounds for alfalfa caterpillar, bean leaf beetle, cucumber beetles, green cloverworm, Japanese beetle, leafhoppers, threecornered alfalfa hopper, thrips and velvetbean caterpillar. Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds for armyworm, corn earworms, stink bugs and webworms. Use 1 $\frac{1}{4}$ pounds (Western United States) and 2 pounds (Eastern United States) for control of alfalfa weevil larvae in the spring. If pre-treatment damage is extensive, cut the alfalfa and make the application to the stubble. Use 1 $\frac{1}{2}$ pounds for cutworm control. On clovers in Texas use 2 pounds for clover head weevil. To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days.

Asparagus—Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for asparagus beetle and seedlings of spears. Use 2 $\frac{1}{2}$ to 5 pounds for asparagus beetle and Apache cicada on ferns or brush growth in the post-harvest period. Do not apply more often than once every 3 days. **DO NOT APPLY WITHIN 1 DAY OF HARVEST.**

Beans (such as dry beans, green beans, lima beans, navy beans, snap beans, southern peas, including crowder and black-eyed peas)—Use $\frac{3}{8}$ pounds for Mexican bean beetle, 1 $\frac{1}{4}$ pounds for bean leaf beetle, cucumber beetles, flea beetles, Japanese beetles, leafhoppers, velvetbean caterpillar and western bean cutworm. Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds for armyworm, cutworms, corn earworm, stink bugs and tarnished plant bug. In California, use 2 $\frac{1}{2}$ pounds for corn earworm, limabean pod borer, lygus and stink bugs.

Cabbage, Broccoli, Brussels Sprouts, Cauliflower and Kohlrabi—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for flea beetles and harlequin bug. Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for armyworm, imported cabbageworm and corn earworm. **DO NOT APPLY WITHIN 3 DAYS OF HARVEST.**

Chinese Cabbage, Collards, Hanover Salad, Horseradish, Kale, Mustard Greens, Radishes, Rutabagas and Turnips—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for flea beetles, harlequin bug and leafhoppers. Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds in a 5 to 7 day schedule for aster leafhoppers. Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for armyworm, imported cabbageworm, corn earworm, tarnish plant bug and stink bugs. Do not apply

within 3 days of harvest of horseradish, radishes, rutabagas and turnips (roots). Do not apply within 14 days of harvest of Chinese cabbage, collards, Hanover salad, kale, mustard greens and turnips (tops).

Carrots, Parsnips and Parsley—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for flea beetles and leafhoppers. Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds in a 5 to 7 day schedule for aster leafhopper. Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for armyworm, corn earworm, tarnished plant bug and stink bugs. No time limitation on carrots. Do not apply within 3 days of harvest of parsnips. Do not apply within 14 days of harvest of parsley.

Corn (Field, Sweet and Pop)—Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for corn earworm, corn rootworm adults, European corn borer, fall armyworm, flea beetles, Japanese beetle, sap beetles and leafhoppers. For larvae in whorl (budworm damage) and foliage feeders, apply to entire plant. Repeat as necessary. For insects attacking silks and ears, apply 1 to 6 day intervals starting when first silks appear and continuing until silks begin to dry. Three or more applications may be required depending on severity of infestation. Timing and good coverage are absolutely essential for effective control. Use 2 $\frac{1}{2}$ pounds in at least 15 gallons of water for cutworm control. Spray in 12-inch band over the corn row to insure adequate stalk coverage. Use proportionate amounts for narrower bands or broadcast. Application of Carbaryl 80 Sprayable to the tassel region of corn during the pollen shed period will seriously reduce bee population.

Cotton—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for early season thrips, flea beetles, cotton fleahopper, striped blister beetle and cotton leafworm. Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds depending on the size of the cotton and insect population level, for mid and late season boll weevil, bollworms, fall armyworm, cotton leafperforator, leafrollers, leafhoppers, and tarnished plant bug and for light-to-moderate infestations of lygus bugs in Western irrigated cotton. Application should be made every 5 to 7 days as long as control is necessary. For improved bollworm control, add 1 gallon of blackstrap molasses (feed grade) per acre in a spray volume not to exceed 20 gallons per acre.

To avoid staining lint, do not use molasses after bolls open. Use 1 $\frac{1}{2}$ to 3 $\frac{1}{2}$ pounds for pink bollworm on a 5 to 7 day schedule depending on the size of the cotton and degree of infestation. Use 2 $\frac{1}{2}$ pounds for stink bugs and saltmarsh caterpillar. APHID populations will be suppressed by repeated applications of this insecticide. May be applied after bolls open. PHI—7 days.

Cowpeas—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for blister beetles and Mexican bean beetles, use 1 $\frac{1}{4}$ pounds for alfalfa caterpillar, bean leaf beetle, cucumber beetles, flea beetles, green cloverworm, Japanese beetle, leafhoppers, threecornered alfalfa hopper, thrips and velvetbean caterpillar. Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds for armyworm, corn earworm, cutworms, stink bugs and webworms. Use 2 $\frac{1}{2}$ pounds for cowpea curculio. Apply 4 applications beginning at first bloom and at 5-day intervals thereafter. In California, use 2 $\frac{1}{2}$ pounds for corn earworms, limabean pod borer, lygus and stink bugs. To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days.

Cucumber, Melons, Pumpkin and Squash—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for pickleworm and melonworm, 1 $\frac{1}{4}$ pounds for cucumber beetles, flea beetles, leafhoppers and squash bug. Avoid excessive applications. To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days.

Dandelion, Endive (Escarole), Lettuce and Salsify—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for flea beetles, harlequin bug and leafhoppers. Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds in a 5 to 7 day schedule for aster leafhoppers. Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for armyworm, imported cabbageworm, corn earworm, tarnished plant bug and stink bugs. For optimum control of corn earworm after lettuce heads begin to form, use 2 $\frac{1}{2}$ pounds in a 5 to 7 day schedule. To avoid possible injury on lettuce, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days. Do not apply within 3 days of harvest of head lettuce or salsify (roots). Do not apply within 14 days of harvest of dandelion, endive (escarole), leaf lettuce and salsify (tops).

Forage Grasses and Pastures—Use 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ pounds for armyworm and thrips. For thrips control in grasses grown for seed, high spray pressure may help penetration into boot. Use 2 to 2 $\frac{1}{2}$ pounds for white grubs (green June beetle).

Garden Beet, Spinach and Swiss Chard—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for flea beetles, harlequin bug and leafhoppers. Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for armyworm, corn earworm, tarnished plant bug and stink bugs. Do not apply within 3 days of harvest of garden beet (roots). Do not apply within 14 days of harvest of garden beets (tops).

Okra—Use 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ pounds for corn earworm and stink bugs. Repeat at 5 to 7 day intervals or as necessary.

Peanuts—Use $\frac{3}{8}$ to 1 $\frac{1}{4}$ pounds for blister beetles and Mexican bean beetle. Use 1 $\frac{1}{4}$ pounds for alfalfa caterpillar, bean leaf beetle, cucumber beetles, green cloverworm, Japanese beetles, leafhoppers, threecornered alfalfa hopper, thrips

and velvetbean caterpillar. Use 1 1/4 to 1 1/2 pounds for armyworm, corn earworm, stink bugs and webworms. To avoid possible injury on tender foliage, do not apply when foliage is wet or when rain or excessive humidity is expected during the next 2 days.

Peas—Use 1 1/4 pounds for leafhoppers and Colorado potato beetle. Use 1 1/4 to 1 1/2 pounds for armyworm. Use 3 pounds for alfalfa looper in Washington State only. Repeat as necessary.

Potato, Tomato, Eggplant and Pepper—Use 3/4 to 1 1/4 pounds for Colorado potato beetle, flea beetles, and leafhoppers. Use 1 1/4 to 2 1/2 pounds for European corn borer, fall armyworm, lace bugs, tomato fruitworm, tomato hornworm, tarnished plant bug and stink bugs. Use 2 1/2 pounds for cutworm control on potato, tomato and eggplant.

Rice—In the Mississippi Delta and Texas use 1 1/4 to 1 1/2 pounds for armyworm and stink bugs. In California use 2 1/2 pounds for armyworm, leafhoppers and tadpole shrimp. For optimum tadpole shrimp control apply to the water when the pest first appears.

WARNING! To avoid injury to rice, do not apply propanil (such as "Stan" F-34 or "Rogue") within 15 days before or after Carbaryl 80 Sprayable application. Do not apply within 14 days of harvest.

Sorghums (such as milo, grain sorghum, sweet sorghum and hybrids)—Use 1 1/4 to 2 1/2 pounds for armyworm, corn earworm, stink bugs and webworms. Use 1 3/4 pounds for sorghum midge. Use 2 1/2 pounds for cutworms. For optimum insect control on grain sorghum, direct spray into the forming heads. Treat for sorghum midge 3 to 4 days after heads have emerged from boot. Do not apply within 21 days of harvest of grain. No time limitation on sorghum used for forage.

Soybeans—For light to moderate populations in Southeastern states only. Use 3/4 pounds for velvetbean caterpillar, green cloverworm, bean leaf beetle, cucumber beetles and Mexican bean beetle. Use 3/4 to 1 pound for corn earworm. For clean-up of existing populations. Use 3/4 to 1 1/4 pound for blister beetles and Mexican bean beetle. Use 1 1/4 pound for alfalfa caterpillar, bean leaf beetle, cucumber beetles, green cloverworm, Japanese beetle, leafhoppers, threecornered alfalfa hopper, thrips and velvetbean caterpillar. Use 1 1/4 to 1 3/4 pounds for armyworm, corn earworm, webworms and stink bugs.

WARNING! Do not apply a combination of Carbaryl 80 Sprayable and 2,4-DB herbicide (such as "Butyrac" 175 or "Butoxone" SB) to soybeans.

Sugar Beets—Use 1 1/4 to 2 1/2 pounds for armyworm, flea beetles, leafhoppers and webworms. Do not apply within 14 days of harvest.

Tobacco in Plant Beds—For tobacco flea beetle, use 2 1/2 level tablespoons per gallon or 1 1/4 pounds per 50 gallons, and apply 6 gallons per 100 square yards. For green June beetle grubs, use 3/4 pound per 100 gallons of water, when insects or their damage appear. Apply only to areas that larvae have uprooted by sprinkling as a drench with 50 to 100 gallons per 100 square yards. May be applied before or after seeding. Avoid excessive application as plant injury may result.

In Fields—For budworms, flea beetles, Japanese beetle, June beetles and hornworms, use 1 1/4 to 2 1/2 pounds per acre in sufficient water for full coverage of plants. Use lower rate on young plants up to knee high, higher rate on mature plants. Use at least 10 gallons per acre of the prepared spray. Begin treatments when worms are small. Avoid excessive application in bud of plant as injury may result. Treated fields may be entered immediately after foliage has dried. If late applications are necessary, allow 3 days before pruning or cutting.

Grasshoppers—Apply 3/4 to 1 1/4 pounds as often as necessary to control grasshoppers on the above forage, field and vegetable crops. Follow pre-harvest and grazing use limitations listed for each of the above crops. A 3/4 to 1 1/4 pounds rate is needed for nymphs on small plants or sparse vegetation in wasteland, rangeland, ditchbanks and borders. A 1 1/4 to 1 3/4 pounds dosage should be used when grasshoppers are mature or material is applied to crops requiring greater coverage.

Tree Fruit and Nut Insect Control—Recommended dosages refer to pounds of Carbaryl 80 Sprayable per 100 gallons of dilute spray in conventional hydraulic-type sprays. Apply dilute sprays for full coverage. Spray gallonage will vary according to tree size, density, planting distance and stage of growth. With concentration of Carbaryl 80 Sprayable should be increased in the spray mixture so that the amount of Carbaryl 80 Sprayable applied per acre is equivalent to a full coverage dilute spray. Keep spray mixtures well agitated.

Almond—Use 1 1/4 pounds for peach twig borer, San Jose scale and fruit tree leafroller. 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. Allow a 28 day pre-harvest interval.

Apples and Pears—Application of Carbaryl 80 Sprayable within 30 days after full bloom may provide apple thinning, to avoid this, delay use until at least 30 days after bloom. Foliar injury may result from combination with summer oils west of the Rocky Mountains or when used before second cover on York and McIntosh apples east of the Rocky Mountains.

West of the Rocky Mountains Use 1 to 1 1/4 pound for apple sucker, apple aphid, woolly apple aphid, bagworms, California pearslug (pear sawfly), codling moth, apple rust mite, pearleaf blister mite, pear rust mite, eyespotted bud moth, green fruitworm, lygus bugs, orange tortrix, pear psylla, tentiform leafminers, Lecanium scales, oystershell scale and San Jose scale. For optimum scale control, apply when crawlers are present. When heavy aphid infestations are present, repeated applications may be necessary for optimum control.

East of the Rocky Mountains Use 3/4 pounds for apple mealybug, apple aphid, codling moth and white apple leafhopper. When heavy aphid infestations are present, repeated applications may be necessary for optimum control. Use 1 1/4 pound for apple maggot, bagworms, eastern tent caterpillar, European apple sawfly, eyespotted bud moth, fruit tree leafroller, green fruitworm, Japanese beetle, pear psylla, periodical cicada, plum curculio, redbanded leafroller, rosy apple aphid, woolly apple aphid, apple rust mite, pearleaf blister mite, pear rust mite, tarnished plant bug, tentiform leafminers, Forbes scale, Lecanium scales, oystershell scale and San Jose scale. For optimum scale control, apply when crawlers are present. To control rosy apple aphids, apply before leaves are curled. Do not apply within 1 day of harvest of apples and pears.

Apple Thinning—Many factors influence the degree of apple thinning obtained with Carbaryl 80 Sprayable. These include tree age, variety, nutrition, previous crop, pruning, degree of set, bloom, weather and use of other chemical thinners. When any of these favor reduced fruit set, caution should be observed in applying Carbaryl 80 Sprayable so that excessive thinning and possible yield reduction will not occur. Recommended dosages refer to pounds of Carbaryl 80 Sprayable per 100 gallons dilute spray. Concentration Use 3/4 to 1 1/4 pounds on easily-thinned varieties. Apply for full coverage. On hard-to-thin varieties use 3/4 to 1 1/4 pound.

Timing Apply in one spray timed between 10 and 25 days after full bloom. Varietal Response: Easily-thinned varieties include Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap and Yellow Newton. Difficult-to-thin varieties include Baldwin, Ben Davis, Duchess, Early McIntosh, Golden Delicious, Lady Apple, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial.

Citrus Fruit (such as grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats and hybrids)—Use 1 1/4 pounds for California orange-dog, citrus cutworm, fruit tree leafroller, orange tortrix and western tussock moth. Use 1 to 1 1/4 pounds for black scale, brown soft scale, California red scale, citricola scale, citrus snow scale and yellow scale. Apply lower dosage early in the season or against light infestation and the higher dosage late in the season or against heavy infestation and situations involving infested fruit. May be used with petroleum oil as used in common practice on citrus. Do not apply more than 25 pounds of Carbaryl 80 Sprayable per acre per application. Do not apply less than 10 gallons of dilute spray mixture per mature tree. Do not apply within 5 days of harvest of these crops.

Filbert—Use 1 1/4 pounds filbert aphid, filbert leafroller and filbertworm. Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later. With dilute sprays, 400 gallons per acre is suggested.

Olives—Use 1 to 1 1/4 pounds with 1 1/2 gallons of summer oil in sprays for olive scale control. For optimum scale control, apply when crawlers are present. A maximum of 2 applications is permitted. Do not apply more than 18 3/4 pounds of Carbaryl 80 Sprayable per acre per application.

Peaches, Apricots and Nectarines—Use 1 1/4 pounds for codling moth, cucumber beetles, European earwig, Japanese beetle, apple pandemis, June beetles, lesser peachtree borer, orange tortrix, oriental fruit moth, peach twig borer, periodical cicada, plum curculio, fruit tree leafroller, redbanded leafroller, variegated leafroller, tarnished plant bug, tussock moths, Lecanium scale, San Jose scale and olive scale. For optimum scale control, apply when crawlers are present. For lesser peach tree borer control, spray limbs and trunk thoroughly, weekly during moth flight. Do not apply more than 7 1/2 pounds of Carbaryl 80 Sprayable per acre per application on apricots. Do not apply within 1 day of harvest of peaches. Do not apply within 3 days of harvest of apricots and nectarines.

Pecans—Use 1 1/2 to 3 pounds for pecan weevil and pecan nut casebearer. Do not apply more than 9 pounds of Carbaryl 80 Sprayable per acre per application.

Plums, Prunes and Cherries—Use 1 1/4 pounds for black cherry aphid, mealy plum aphid, cherry maggot, cherry fruitworm, eyespotted bud moth, fruit tree leafroller, redbanded leafroller, Japanese beetle, lesser peachtree borer, peach twig borer, plum curculio, prune leafhopper, brown soft scale, Forbes scale, Lecanium scales, oystershell scale and San Jose scale. For optimum scale control, apply when crawlers are present. For lesser peach tree borer control, spray limbs and trunk thoroughly, weekly during moth flight. Use 1 pound for eastern tent caterpillar, codling moth, orange tortrix and tussock moths. Do not apply more than 7 1/2 pounds of Carbaryl 80 Sprayable per acre per application.

Do not apply within 1 day of harvest of these crops.

Walnut—Use ½ pounds for codling moth, frosted scale, European fruit lecanium, calico scale, filbertworm and fruit tree leafroller. Apply 1000 gallons of dilute spray per acre for complete coverage. In concentrate spray, use 5 pounds in at least 200 gallons per acre. For codling moth apply first spray when average cross sectional diameters of developing nuts reach ½ to ¾ inch. Repeat during middle or late June as needed. Use 2½ pounds for European earwig. Spray tree trunks to point of run-off.

Small Fruit Insect Control—Recommended dosage refer to pounds of Carbaryl 80 Sprayable per acre. Keep spray mixtures well agitated. Apply when insects or their damage appears. Repeat at 7 to 10 day intervals or as necessary.

Blueberries—Use 3.75 pounds for blueberry maggot, cherry and cranberry fruitworms, European fruit lecanium and Japanese beetle. Apply 3 weeks before harvest and repeat 10 days later or as necessary. With dilute sprays, 125 to 150 gallons per acre is suggested.

Cranberries—Use 1½ to 3¼ pounds for cutworms, cranberry fireworms, fruitworms, Japanese beetle and leafhoppers. Apply in late bloom and as needed at 7 to 10 day intervals. With dilute sprays, 300 gallons per acre is suggested. Do not apply within 1 day of harvest.

Grapes—Use 1¼ to 2½ pounds for European fruit lecanium, grape leafroller, grape leafhoppers and western grapeleaf skeletonizer. Apply just before first brood leafroller larvae emerge from rolls and as needed for leafhoppers. Use 2½ pounds for cutworms, grape berry moth, Japanese beetle, June beetles, orange tortrix, omnivorous leafroller and redbanded leafroller. With dilute sprays 200 gallons per acre is suggested.

Strawberries—Use 1¼ to 2½ pounds for meadow spittlebug, strawberry weevil. Carbaryl 80 Sprayable may injure Early Dawn and Sunrise varieties on Delmarva Peninsula. With dilute sprays, 100 to 200 gallons per acre is suggested. Do not apply within 1 day of harvest.

Blackberries, Raspberries and Dewberries (Including Boysenberries and Loganberries)—Use 2½ pounds for Japanese beetle, leafrollers, leafhoppers and European raspberry aphid. In California use 2½ pounds for omnivorous leafroller and raspberry sawfly. With dilute spray, 100 to 200 gallons per acre is suggested. Do not apply within 7 days of harvest of these crops.

Shade Tree and Ornamental Insect Control—Use 1¼ pounds per 100 gallons of water (1¼ tablespoons per gallon) when insects or their damage appear. Repeat weekly or as needed. Carbaryl 80 Sprayable injures Boston ivy, Virginia creeper and maidenhair fern. Use on herbaceous annual, biennial and perennial plants (such as carnation, chrysanthemum, gladiol and zinnia) to control blister beetles, flea beetles, boxelder bugs, Japanese beetle, June beetles, lace bugs, leafhoppers, leafrollers, mealybugs, plant bugs, psyllids, rose aphid, thrips (exposed). Use on shrubs, trees and woody plants (such as arborvitae, azalea, birch, dogwood, elm, hydrangea, juniper, lilac, maple, pine, oak and rose) to control apple aphids, bagworms, birch leafminer, boxelder bug, boxwood leafminer, cankerworms, cooley spruce gall aphid, eastern spruce gall aphid, elm leaf aphid, elm leaf beetle, eriophyid mite, gypsy moth, Japanese beetle, leaf beetles, lace bugs, leafhoppers, leafrollers, mealybugs, mimosa webworm, leafminers, orange tortrix, periodical cicada, plant bugs, puss caterpillars, thorn bug, thrips (exposed), willow leaf beetles. Carbaryl 80 Sprayable does not control spider mites but is compatible with most common miticides.

Lawn and Area Insect Control—Use 1¼ pounds Carbaryl 80 Sprayable in 150 to 200 gallons of water for each 5000 square feet (2½ tablespoons in 3 to 4 gallons of water for each 100 square feet) to established lawn area for the control of ants, bluegrass, billbugs, chinch bugs, cutworms, earwigs, European chafer, fall armyworm, fleas, green June beetle, leafhoppers, millipedes, mosquitoes, sod webworm (lawn moths). In Florida, Use 1½ pounds for chinch bug control. Use garden hose sprayers or pressure type equipment. Insure good penetration of turf. For best results, mow lawn and apply immediately after rain or watering. Repeat 2 to 3 weeks later if necessary.

Forest Trees Insect Control (including shade trees, shelter belts, forests, plantations, parks and recreational areas)—Use 1¼ pounds of Carbaryl 80 Sprayable per acre by aircraft or hydraulic mistblower for gypsy moth, elm spanworm, saddled prominent spring and fall cankerworm, forest tent caterpillar and Great Basin tent caterpillar. Apply when larvae are in early instars. Keep spray mixtures well agitated. Addition of a sticker may improve residual control.

Adult Mosquitoes—On pasture and rangelands, and non-agricultural lands such as yards, parks, recreation areas, logging camps, military post and adjacent forested lands or wastelands. Use ½ to ¾ pounds per acre in mistblower, ¾ to 1 pounds per acre in aerial sprays, or 1¼ pounds per acre in suitable low pressure ground equipment. Apply in sufficient spray gallonage to effectively cover areas to be treated. For optimum control apply in early morning

or evening when air is calm and adult mosquitoes are active. Use 1¼ pounds per 100 gallons in hydraulic sprayers or 2 tablespoons per gallon in hand sprayer for treating backyards or other limited areas. Thoroughly cover lower shade tree foliage, shrubbery, flower beds, and shaded area around buildings where adult mosquitoes congregate. Repeat at 7 to 10 day intervals. CAUTION: May kill shrimp and crabs. Do not use in areas where shrimp and crabs are important resources.

Pest Control in and around Buildings (for use by Pest Control Operators Only) in and around buildings (such as homes, apartments, warehouses, barns, and municipal and recreation areas)—For cockroaches and ants, use 1 pound Carbaryl 80 Sprayable per 4 gallons of water. For brown dog tick, earwigs and millipedes, use 1 pound Carbaryl 80 Sprayable per 10 gallons of water. Apply as a coarse wet spray or with a paint brush and thoroughly treat cracks and crevices, baseboards, corners, walls, door sills and window frames, sleeping quarters of household pets, ant trails, outside perimeter of dwellings and other areas where insects tend to congregate. Do not use as a space spray. Repeat when necessary but not more often than twice per week.

On Interior and Exterior wall surfaces, Ceilings, Eaves and Roofs or Dwellings Constructed of Wood, Bamboo, Metal, Cement, Brick, Thatch or Whitewashed Clay—For residual control of adult mosquitoes in subtropical and tropical regions, use 1 pound of Carbaryl 80 Sprayable per 4 gallons of water and apply the prepared spray per 2000 square feet of surface area. Repeat in 3 to 6 months or when necessary. NOTE: Do not use in the edible products area of food processing plants, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. Fresh bedding should be placed in animal quarters following treatment. Do not spray animals. Do not spray kennels or other animal areas until animals have been removed. See Caution. Do not treat rugs, carpets, drapes and other fabrics as staining may result. Avoid application to structural surfaces where visible spray residue and water stains are objectionable.

Poultry Insect Control—Chickens, Ducks, Geese, Gamebirds, Pigeons and Turkeys. Direct mist spray on birds. Control northern fowl mite, chicken mite, lice and fleas by

1. Misting with electric fog machine. Mix ¾ pounds (6 ounces) of Carbaryl 80 Sprayable in 1 gallon of spray. Use 1½ gallons per 1000 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 Sprayer. Mix ¼ pound (4 ounces) of Carbaryl 80 Sprayable in 5 gallons of spray. Use 1 gallon per 100 hens in cages, on litter or on 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. Spray Roost and Buildings with conventional power spray or knapsack equipment. Control chicken mite, fleas and bed bugs by mixing 1½ pounds per 25 gallons and applying at 1 to 2 gallons per 1000 square feet of wall, litter or roost surface. Increase dosage to 5 pounds per 25 gallons for fowl tick control. Force spray into cracks. Repeat as needed. Ventilate while spraying. Avoid contamination of nests, eggs and feeding and watering troughs. Do not apply to poultry and game birds or to their premises within 7 days of slaughter.

WARRANTY—CONDITION OF SALE:

Drexel warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.



Manufactured By

Drexel Chemical Company

P.O. BOX 9306, MEMPHIS, TENN. 38109-0306

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. Do not stack over 2 pallets high. Move containers by handles or in 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 cross-contamination. 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 saw dust, 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. Do not allow run off to enter sewer or contaminate water supplies.
6. 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



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