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19713-84

MAR 8 1985

Ms. Les Shockey
Drexel Chemical Company
P.O. Box 9306
Memphis, TN 38109

Dear Ms. Shockey:

Subject: Drexel Carbaryl 95 Sprayable
General Revision of Label in Response to the
Carbaryl Registration Standard
EPA Registration No. 19713-84
Your Application Dated January 3, 1985

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Revise your Environmental Hazards paragraph to read:

This product 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.

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.

Submit five copies of revised labeling incorporating the above comment before you release this product for shipment.

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

SEARCHED	SERIALIZED	INDEXED	FILED	DATE	TIME	OFFICE

ENCLOSURE

REPLY TO: J.S. 85059, Ellenberger, EPA Reg. Kenneth E. Co (898-1770), 1/7/85, Del. 1/12/85

MAR 08 1985



19713-84

Carbaryl 95 Sprayable

A Wettable Powder for Control of Insect Pest on Cotton, Soybeans, Apples and Pears.

ACTIVE INGREDIENT:
Carbaryl (1-naphthyl methylcarbamate) 95%
INERT INGREDIENTS: 5%
TOTAL: 100%

**Keep Out Of The Reach Of Children
WARNING/AVISO**

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

EPA Registration Number 19713-84
EPA Establishment Number 19713-MS-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: May be fatal if swallowed. Avoid breathing spray vapors. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

NOTE TO PHYSICIAN: Carbaryl is a moderate reversible cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, ipratropium or other cholinergic blocking drugs.

STATEMENT OF PRACTICAL TREATMENT:

IF SWALLOWED: Do not induce vomiting. Rinse mouth with water. Do not eat, drink or use tobacco. Notify physician.

IF ON SKIN: Wash thoroughly with soap and water. Get medical attention if irritation occurs.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Get medical attention.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not apply to streams, rivers, lakes, ponds, streams, or other bodies of water. Do not apply to areas where waterfowl, fish, or other aquatic life are present. Do not apply to areas where bees are present. Do not apply to areas where birds are present. Do not apply to areas where mammals are present. Do not apply to areas where insects are present. Do not apply to areas where plants are present. Do not apply to areas where animals are present. Do not apply to areas where humans are present. Do not apply to areas where children are present. Do not apply to areas where pregnant women are present. Do not apply to areas where nursing infants are present. Do not apply to areas where the elderly are present. Do not apply to areas where the disabled are present. Do not apply to areas where the sick are present. Do not apply to areas where the infirm are present. Do not apply to areas where the weak are present. Do not apply to areas where the old are present. Do not apply to areas where the young are present. Do not apply to areas where the poor are present. Do not apply to areas where the rich are present. Do not apply to areas where the beautiful are present. Do not apply to areas where the ugly are present. Do not apply to areas where the good are present. Do not apply to areas where the bad are present. Do not apply to areas where the virtuous are present. Do not apply to areas where the wicked are present. Do not apply to areas where the just are present. Do not apply to areas where the unjust are present. Do not apply to areas where the merciful are present. Do not apply to areas where the unmerciful are present. Do not apply to areas where the kind are present. Do not apply to areas where the unkind are present. Do not apply to areas where the gentle are present. Do not apply to areas where the ungentle are present. Do not apply to areas where the meek are present. 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Do not apply to areas where the well-treated are present. Do not apply to areas where the ill-treated are present. Do not apply to areas where the well-respected are present. Do not apply to areas where the ill-respected are present. Do not apply to areas where the well-liked are present. Do not apply to areas where the ill-liked are present. Do not apply to areas where the well-loved are present. Do not apply to areas where the ill-loved are present. Do not apply to areas where the well-remembered are present. Do not apply to areas where the ill-remembered are present. Do not apply to areas where the well-known are present. Do not apply to areas where the ill-known are present. Do not apply to areas where the well-remembered are present. Do not apply to areas where the ill-remembered are present. Do not apply to areas where the well-known are present. Do not apply to areas where the ill-known are present. Do not apply to areas where the well-remembered are present. 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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 for 48 hours.

Carbaryl 95 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 95 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 95 Sprayable with other pesticides in low-gallonage mixtures is not fully known. Before preparing large amounts, combinations should be tested by fully dispersing Carbaryl 95 Sprayable, then adding the other pesticide and the remaining portion of water. DO NOT USE MIXTURES THAT 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, combinations of Carbaryl 95 Sprayable with some phosphate pesticides may cause foliar injury.

COMPATIBILITY

1. Carbaryl 95 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 95 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 representative 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.

Do not apply to areas where workers who are expected to be in a field for an extended period of time are present. Do not apply to areas where children are present. Do not apply to areas where the elderly are present. Do not apply to areas where the disabled are present. Do not apply to areas where the sick are present. Do not apply to areas where the infirm are present. Do not apply to areas where the weak are present. Do not apply to areas where the old are present. Do not apply to areas where the young are present. Do not apply to areas where the poor are present. Do not apply to areas where the rich are present. Do not apply to areas where the beautiful are present. Do not apply to areas where the ugly are present. Do not apply to areas where the good are present. Do not apply to areas where the bad are present. Do not apply to areas where the virtuous are present. Do not apply to areas where the wicked are present. Do not apply to areas where the just are present. Do not apply to areas where the unjust are present. Do not apply to areas where the merciful are present. Do not apply to areas where the unmerciful are present. Do not apply to areas where the kind are present. Do not apply to areas where the unkind are present. Do not apply to areas where the gentle are present. Do not apply to areas where the ungentle are present. Do not apply to areas where the meek are present. Do not apply to areas where the unmeek are present. Do not apply to areas where the mild are present. Do not apply to areas where the unmild are present. Do not apply to areas where the sweet are present. Do not apply to areas where the unsweet are present. Do not apply to areas where the pleasant are present. Do not apply to areas where the unpleasant are present. Do not apply to areas where the agreeable are present. Do not apply to areas where the disagreeable are present. Do not apply to areas where the amiable are present. Do not apply to areas where the unamiable are present. Do not apply to areas where the sociable are present. Do not apply to areas where the unsociable are present. Do not apply to areas where the friendly are present. Do not apply to areas where the unfriendly are present. Do not apply to areas where the courteous are present. Do not apply to areas where the discourteous are present. Do not apply to areas where the polite are present. Do not apply to areas where the impolite are present. Do not apply to areas where the well-bred are present. Do not apply to areas where the ill-bred are present. Do not apply to areas where the well-mannered are present. Do not apply to areas where the ill-mannered are present. Do not apply to areas where the well-behaved are present. Do not apply to areas where the ill-behaved are present. Do not apply to areas where the well-dressed are present. Do not apply to areas where the ill-dressed are present. Do not apply to areas where the well-groomed are present. Do not apply to areas where the ill-groomed are present. Do not apply to areas where the well-kept are present. Do not apply to areas where the ill-kept are present. Do not apply to areas where the well-maintained are present. Do not apply to areas where the ill-maintained are present. Do not apply to areas where the well-cared for are present. Do not apply to areas where the ill-cared for are present. Do not apply to areas where the well-treated are present. Do not apply to areas where the ill-treated are present. Do not apply to areas where the well-respected are present. Do not apply to areas where the ill-respected are present. Do not apply to areas where the well-liked are present. Do not apply to areas where the ill-liked are present. Do not apply to areas where the well-loved are present. Do not apply to areas where the ill-loved are present. Do not apply to areas where the well-remembered are present. Do not apply to areas where the ill-remembered are present. Do not apply to areas where the well-known are present. Do not apply to areas where the ill-known are present.

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 95 Sprayable residues when Carbaryl 95 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 95 Sprayable Insecticide is used in accordance with label directions, forage and feed crops, cotton forage, soybean hay, 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 95 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.

Cotton—Use .60 to 1 pounds for early season thrips, flea beetles, cotton fleahopper, striped blister beetle and cotton leafworm. Use 1 to 2.10 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 tyfus 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 1.70 to 2.60 pounds for pink bollworm on a 5 to 7 day schedule depending on the size of the cotton and degree of infestation. Use 2.10 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.

Soybeans—For light to moderate populations in Southeastern states only. Use .60 pounds for velvetbean caterpillar, green cloverworm, bean leaf beetle, cucumber beetles and Mexican bean beetle. Use .60 to .85 pounds for corn earworm. For clean-up of existing populations: Use .60 to 1 pound for blister beetles and Mexican bean beetle. Use 1 pound for alfalfa caterpillar, bean leaf beetle, cucumber beetles, green cloverworm, Japanese beetle, leafhoppers, threecornered alfalfa hopper, thrips and velvetbean caterpillar. Use 1 to 1.70 pounds for armyworm, corn earworm, webworms and stink bugs.

WARNING! Do not apply a combination of Carbaryl 95 Sprayable and 2,4-DB herbicide (such as "Butyrac" 175 or "Butoxone" SB) to soybeans. Apples and Pears—Application of Carbaryl 95 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 .85 to 1 pound for 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, tyfus bugs, orange tortrix, pear psylla, tentiform leafminers, locanium 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 .60 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 pound for apple maggot, bagworms, eastern tent caterpillar, European apple sawfly, eyespotted bud moth, fruit tree leafhopper, 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, locanium 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 95 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 95 Sprayable so that excessive thinning and possible yield reduction will not occur. Recommended dosages refer to pounds of Carbaryl 95 Sprayable per 100 gallons dilute spray. Concentration: Use .30 to .85 pounds on easily-thinned varieties. Apply for full coverage. On hard-to-thin varieties, use .85 to 1 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.

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 or 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 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. Place a leaking container in a plastic tub and transfer 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 waste 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.

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 8008, MEMPHIS, TENN. 38108-0008