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19713-131

MAR 8 1985

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

Dear Ms. Shockey:

Subject: Drexel Carbaryl 4 Oil
General Revision of Label in Response to
Carbaryl Registration Standard
EPA Registration No. 19713-131
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.

The statement "Subsequent planting of food and feed crops..." must be placed in your directions for use section rather than in your Physical or Chemical Hazards paragraph.

Sincerely yours,

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

Enclosure

JOB-85060;RD-24A:3/5/85;Del:3/13/85;Kendrick:898-1270;DAA

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

Drexel

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Carbaryl 4 Oil

An Oil Suspension For Control of Insect Pest

ACTIVE INGREDIENTS:

Carbaryl
(1-Naphthyl Methylcarbamate) 49.0%
Petroleum Oils 46.3%

INERT INGREDIENTS: 4.7%

TOTAL: 100.0%

Product contains 4 pounds of carbaryl as active ingredient.

Keep Out Of The Reach Of Children CAUTION

EPA Registration Number 19713-131
EPA Establishment Number 19713-MS-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with plenty of water and get medical attention.

IF ON SKIN: Immediately remove contaminated clothing, INCLUDING SHOES, and wash skin with soap and plenty of water. If irritation develops, send for a physician.

ENVIRONMENTAL HAZARDS

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.

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water or wetlands, except under the forest canopy. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame. Subsequent planting of food and feed crops in treated soil must be made with crops on this or other carbaryl labels.

GENERAL INFORMATION:

Carbaryl 4 Oil carbaryl insecticide is a dispersion of finely ground technical carbaryl in a non-aromatic, low volatile oil. It is designed for an application as a low volume or ultra low volume spray. It may also be applied by ground mist blower or cold fogging, if diluted with diesel fuel, kerosene or #2 fuel oil.

READ THIS LABEL BEFORE USE. USE IN STRICT ACCORDANCE WITH DIRECTIONS AND CAUTIONS.

PREHARVEST 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 harvest or grazing of forage crops.

MIXING AND APPLICATION

1. Carbaryl 4 Oil thickens during storage. Roll or agitate drums or recirculate product in bulk tanks before use to reduce viscosity and restore homogeneity. Carbaryl 4 Oil may be held prior to use and transferred in any materials of construction suitable for use with fuel oil, kerosene or diesel oil. Protect from water.
2. Before and after use, flush nurse tanks, pumps, lines, hoses and entire systems with diesel fuel, kerosene or #2 fuel oil until clean. Water, scale, rust and other residue must be removed from pumps, mixing and spray systems before use.
3. Carbaryl 4 Oil is not compatible with and should not be mixed with water, alcohol or aromatic solvents, but can be diluted with aliphatic oil, diesel fuel, kerosene or #2 fuel oil. Compatibility with other pesticides has not been thoroughly tested. DO NOT USE IN PANK MIX COMBINATIONS UNLESS YOUR EXPERIENCE INDICATES THAT THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN PLANT INJURY OR MECHANICAL DIFFICULTY.
4. For best mixing when preparing diluted Carbaryl 4 Oil, add diluent oil to mix tank before adding proper volume of Carbaryl 4 Oil. Provide periodic circulation to maintain uniform suspension if diluted.
5. Calibrate equipment to deliver the desired spray volume. Flat fan nozzles may be used to apply both undiluted and diluted Carbaryl 4 Oil. Rotary atomizing and hollow cone nozzle are not recommended for applying undiluted Carbaryl 4 Oil but can be used if 1 to 1 dilution is made. Use of a high volume 50 mesh in-line strainer is suggested. Use of screens, bubble nozzles is not recommended.
6. Apply by air undiluted or diluted with kerosene, diesel fuel or #2 fuel oil. At temperatures below 50°F (10°C) dilution of 4 volumes of Carbaryl 4 Oil with 1 volume of diluent oil is recommended to assure uniform flow and spray distribution. Dilutions greater than 1 to 1 by volume are not recommended, higher dilutions will reduce residual properties. Dilute 1 to 1 by volume when applying with ground equipment.
7. Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

DIRECTIONS FOR USE

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

INSECT CONTROL

The directions on this label are based on tests and field experience relating to a effectiveness (b) possible injury to plants and animals, and (c) residues in food, feed, meat and milk. Follow directions for most effective use. DOSAGES LISTED REFER TO QUARTS OF CARBARYL 4 OIL PER ACRE NOT TO VOLUME OF FINISHED SPRAY PER ACRE. Refer to Steps 4 and 6 under STORAGE AND APPLICATION FOR INSTRUCTION ON DILUTION.

CORN (field, pop) INSECT CONTROL

For corn rootworm beetles: Apply 1 quart of Carbaryl 4 Oil per acre as needed at first silking if populations are at economic levels and/or apply later when needed to control adult population buildup to reduce larval damage to next year's crop. Do not make more than two applications.

For western bean cutworm: Apply a single application of 2 quarts of Carbaryl 4 Oil plus 2 quarts diesel fuel, kerosene or #2 fuel oil per acre when an average of 1 in 7 plants have western bean cutworm egg masses or newly hatched larvae and 90 to 100% of the tassels have emerged. Application after 100% of the silks have emerged will reduce effectiveness.

For Japanese beetle: Apply 1 quart Carbaryl 4 Oil per acre when adult beetles are present.

For grasshoppers: Apply ¾ to 1½ quarts Carbaryl 4 Oil per acre. Lower rate is suggested for nymphs on small plants. Use 1.0 or 1.5 quarts when grasshoppers or foliage are mature and greater coverage is required.

FOREST INSECT CONTROL

For control of gypsy moth, fall and spring cankerworms, saddled prominent, pest tent caterpillar, elm spanworm, oak leafroller complex and Japanese beetle: Apply 1 quart Carbaryl 4 Oil per acre when larvae are in early instars. In the Rocky Mountains and West of the Rocky Mountains apply when larvae are in third through fifth instars.

For population control and foliage protection of high value trees using ground mist blower application, apply 0.8 pint of a spray mixture containing equal volumes of Carbaryl 4 Oil and diesel fuel, kerosene or #2 fuel oil per 20 to 30 foot trees (0.2 lb. ad/tree) when larvae are in early instars. Cover foliage thoroughly but avoid runoff.

PASTURE, RANGELAND AND WASTELAND INSECT CONTROL

For grasshoppers: Apply ½ to 1½ quart of Carbaryl 4 Oil per acre. Lower rate is suggested for nymphs on small plants or sparse vegetation. Use higher rate when grasshoppers are mature or vegetation is thick.

For range caterpillar: Apply ½ to 1 quart of Carbaryl 4 Oil per acre. Use the lower rate when larvae are in early instars and the higher rate for later instars.

For Japanese beetle: Apply 1 quart of Carbaryl 4 Oil per acre when adult beetles are present.

STORAGE AND DISPOSAL

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

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 hand or by pallet. 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 container 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 9306, MEMPHIS, TENN. 38109-0306