



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Rebecca A. Lamas
Gowan Company
P.O. Box 5569
Yuma, AZ 85366

MAY 15 2000

Subject: Gowan Carbaryl 10 Dust
EPA Registration No. 10163-124
Amendment dated February 18, 2000 in Response to EPA
Letter dated December 21, 1999 for Carbaryl GDE.

Dear Ms. Lamas:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes indicated below before you release the product for shipment bearing the amended labeling:

1. The preharvest intervals (PHIs) for the crops Cherries, Plums, and Prunes must all be corrected to be 3 days.

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

Sincerely,
George Tompkins
George Tompkins, Ph.D., Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

ACCEPTED
with COMMENTS
In EPA Letter Dated:
MAY 15 2000

GOWAN CARBARYL 10 DUST

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
10163-124

ACTIVE INGREDIENTS:	% BY WT.
Carbaryl (1-naphthyl methylcarbamate).....	10.0%
INERT INGREDIENTS	<u>90.0%</u>
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Give victim one or two glasses of water and induce vomiting by touching back of throat with finger. Get medical attention.

IF INHALED: Induce vomiting and seek medical treatment.

IF IN EYES: Flush eyes thoroughly with water.

IF ON SKIN: Wash skin thoroughly with soap and water.

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

FOR EMERGENCY MEDICAL RESPONSE AND HAZARD COMMUNICATION ONLY, CALL HAZARD INFORMATION SERVICES AT (800) 228-5635 EXT. 283.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled or swallowed. Do not breathe dust. Do not take internally. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Avoid contamination of food, feed, feeding troughs and watering receptacles.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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

USER SAFETY RECOMMENDATIONS
<p>Users should:</p> <ul style="list-style-type: none"> • Wash hand before eating, drinking, chewing gum, using tobacco or using the toilet. • Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Extension Service.

To protect fish and wildlife, do not contaminate any body of water with this material. This pesticide is toxic to aquatic organisms. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water when disposing of equipment wash waters. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label. Do not apply where run-off is likely to occur. Do not apply when weather conditions favor drift from treated area.

DO NOT ALLOW THIS PRODUCT TO DRIFT FROM THE AREA BEING TREATED.

NET CONTENTS.....POUNDS

GOWAN

EPA Reg No. 10163-124
EPA Est. No.67545-AZ-1

Gowan Company
P O Box 5569
Yuma, AZ 85366-5569

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURE USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agriculture workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

CHEMIGATION STATEMENT

Do not apply this product through any type of irrigation system.

PHYTOTOXICITY STATEMENT

Some phytotoxicity may occur on tender foliage in presence of rain or high humidity of several days duration.

PREHARVEST INTERVAL

The Required days between the last application and harvest are given in () after each crop name.

CAUTION

Use only for recommended purposes and at recommended dosages.

Do not apply this material with equipment that has been used to apply 2,4-D, 2,3,4-T or related weed killing compounds.

GENERAL USE INSTRUCTIONS

Apply when pests first appear and repeat as necessary. May be applied by ground or air. In order that pesticidal residues on food and forage crops will not exceed established tolerances use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to areas occupied by beneficial animals or onto adjoining food, fiber or pasture crops. **The grower is responsible** for residues on his crops, as well as damages caused by drift from his property to that of others.

Consult State Agricultural Experiment Stations or State Agricultural Extension Service for additional information, as the timing, numbering and rate of applications needed will vary with local conditions.

ALMONDS (28): Fruit-tree leafroller – Use 40–80 lbs. per acre.

ALFALFA (7), CLOVERS (7): Use 15 lbs. per acre to control Thrips, Leafhoppers, Three-cornered Alfalfa Hoppers, Japanese beetles, Alfalfa caterpillars, Armyworms, Corn Earworms, and Stink bugs.

APPLES (3), PEARS (3): Codling Moth, Green Apple Aphids, Apple Maggot, Redbanded Leafroller, Pear Psylla, Periodical Cicada—use 35--60 lbs. per acre. Application within 30 days after full bloom may also provide apple thinning. To avoid this, delay use until at least 30 days after bloom.

APRICOTS (3), PEACHES (3), NECTARINES (3): Oriental Fruit Moth, Peach Twig Borer, Periodical Cicada, Codling Moth, Tussock Moth—use 40--60 lbs. per acre.

ASPARAGUS (1): Asparagus Beetle on Seedlings or Spears – use 20 lbs. per acre. Apply during cutting season. Do not repeat application within 3 days. Asparagus Beetle, Apache Cicada on ferns or brush growth in the post harvest period—use 20--40 lbs.

BEANS [succulent (3), forage (14), hay and dry (21)]: Bean Leaf Beetle, Cucumber Beetle, Flea Beetles, Leafhoppers, Corn Earworm, Stink Bugs, Tarnished Plant Bug. Use 10 lbs. per acre. **California Only:** Lygus Bug, Stink bug, Lima Bean Pod Borer—use 20 lbs. per acre. Do not feed treated vines.

BLACKBERRIES (7), BOYSENBERRIES (7), DEWBERRIES (including boysenberries and loganberries) (7), RASPBERRIES (7): Leafrollers, including Omnivorous Leafroller, Sawfly, Climbing Cutworms, Snowy Tree Cricket (California), Orange Tortrix (Oregon), Leafhopper, Raspberry aphids – Use 20 lbs. per acre.

CABBAGE (3), BROCCOLI (3), BRUSSELS SPROUTS (3), CAULIFLOWER (3) KOHLRABI (3): Flea Beetles, Harlequin Bugs – use 10 lbs. per acre. Armyworm, Corn Earworm, Cabbage Looper (small) – use 20 lbs. per acre. For small Cabbage Looper control, after edible parts start to form, apply in a 5-7 day schedule.

CARROTS (7), CHINESE CABBAGE (14), COLLARDS (14) DANDELION (14-15), ENDIVE (14-15), BEETS [Roots (7) – Tops (14-15)], HORSERADISH (7), KALE (14), LETTUCE [Head and Leaf (14-15)], MUSTARD GREENS (13-14), PARLSEY (14-15), PARSNIPS (7), RADISHES (7), RUTABAGAS (7), SALSIFY (7), SPINACH (14-15), SWISS CHARD (14-15), TURNIPS [Roots (7)—Tops (14-15)]: Flea Beetle, Harlequin Bugs (not on Spinach or Dandelion), Leafhoppers – use 10–15 lbs. per acre. Armyworm, Corn Earworm, Tarnished Plant Bug, Cabbage Looper (small) – use 20 lbs. per acre. For small Cabbage Looper control, apply in a 5 –7 day schedule.

CHERRIES (1), PLUMS (1), PRUNES (1): Cherry Fruit Fly, Peach Twig Borer, Leafhopper, Codling Moth, Orange Tortrix, Western Tussock Moth – use 40 – 60 lbs. per acre.

CORN (FIELD AND POP)(14 days forage and silage, 48 days green and fodder) (SWEET) (ears (2), forage (14), fodder (48): Use 20 lbs. per acre to control Corn Earworm, Fall Armyworm, Sap Beetles and Japanese Beetles. Do not apply within 7 days of harvest for forage. For Corn Earworms, apply to silks as soon as they appear. Make 3 – 4 applications of 2-3 day intervals. Reapply immediately after rain.

FILBERTS (14): Filbert Aphid, Filbert Leafroller, Filbert Moth– use 40 – 50 lbs per acre.

GRAPES (7): Use 20 – 25 lbs. per acre to control Grape Leaf Folders, Grape Leafhoppers, Grape Berry Moths, Japanese Beetles and Western Grape Leaf Skeletonizer.

EGGPLANTS (3), PEPPERS (3), TOMATOES (3): Use 20 lbs. per acre to control Tomato Fruitworms, Fall Armyworms, Flea Beetles, Leafhoppers, Tomato Hornworms, European Corn Borer, Stink Bugs, Colorado Potato Beetles and Lygus Bugs.
No time limitation.

OKRA (3): Corn Earworm, Stink Bugs – use 20 lbs. per acre.

POTATOES (7): Use 15-20 lbs. per acre to control Leafhoppers, Flea Beetles and Colorado Potato Beetles. Apply to foliage only.

RICE (14): Armyworms – use 10-15 lbs. per acre. Tadpole Shrimp (California)-use 20 lbs. per acre. Do not apply within 14 days before or after application of the herbicide propanil (Stam F-34 or Roquel) as injury may results.

SORGHUM (MILO, GRAIN SORGHUM) –[Forage and grazing (14)-Grain and fodder (21)]–Armyworm, Corn Earworm, Stink Bugs, Webworm –use 20 lbs. per acre. Sorghum Midge—use 15 lbs. per acre. Treatment for Sorghum Midge control should be made 3- 4 days after heads have emerged from boot. Direct treatment into the forming heads.

STRAWBERRIES (7): Meadow Spittlebug, Strawberry Leafroller, Strawberry Weevil – use 20 lbs. per acre.

SUGAR BEETS (28): Armyworms, Beet Leafhoppers, Beet Webworms –use 20 lbs. per acre. Grasshoppers—use 15 lbs. per acre.

TOMATO (3), EGGPLANT (3), PEPPERS (3): Colorado Potato Beetle, Flea Beetles, Leafhoppers—use 5-10 lbs. per acre. Fall Armyworm, Tomato Fruitworm, Tomato Hornworm, Tarnished Plant Bug, Stink Bugs—use 10-20 lbs. per acre.

STORAGE AND DISPOSAL

PROHIBITIONS: DO NOT contaminate water, food or feed by storage or disposal. OPEN DUMPING IS PROHIBITED.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL: Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

GENERAL: Consult Federal, State or local disposal authorities for approved alternative procedures such as limited open burning.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300
For other product information, contact Gowan Company or see Material Safety Data Sheet

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility including injury or damage, resulting from its misuse as such, or in combination with other materials.

EPA Text Pending: Gowan Carbaryl 10 Dust (to EPA 02-18-00)