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45639-74

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JUL 29 1993

Mr. Jacob J. Vukich
Nor-Am Chemical Company
Little Falls Centre One
2711 Centerville Road
Wilmington, Delaware 19808

Subject: Revised Labeling--Addition of Limes
Carzol SP
EPA Registration Number 45639-74
Your Amendment Application Dated December 26, 1990

Dear Mr. Vukich:

We have completed our review of your proposal to add limes to the registered uses for this product. Results may be summarized as follows:

The toxicity of formetanate hydrochloride could pose risk to both endangered and non-endangered non-target species. Due to the limited area (<8000 acres), however, exposure would be limited. We therefore have determined that the addition of limes to the Carzol SP label will pose minimal risk to non-target organisms.

A copy of the ecological effects reviewer's report is enclosed for your information.

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), sec. 3(c)(7)(B), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on limes is conditionally registered, in accordance with FIFRA sec. 29. The

fiscal year begins on October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:

Registration Support Branch
Registration Division (H7505C)
Environmental Protection Agency
Washington, DC 20460

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosures

SPECIMEN LABEL

ACCEPTED
with COMMENTS
to EPA Letter dated

BEST AVAILABLE COPY

JUL 29 1983

Under the Federal Insect
Fungicide, and Rodenticide
Act as amended, for the pest
registered under EPA Reg.
45639-74

FOR AGRICULTURAL USE ONLY

Garzol[®] SP

MITICIDE/INSECTICIDE

ACTIVE INGREDIENT

Percent by Weight

Permethrin (100% active)

30

INERT INGREDIENTS

8

100

EPA Reg. No. 45639-74

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

KEEP OUT OF REACH OF CHILDREN



DANGER—POISON PELIGRO—VENENO



STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: DRINK FOUR GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FOREFINGER AND
VOMITING OR USE ANYTHING AVAILABLE BY MOUTH. AND SEND FOR PERSON DETENDING ATTENTION.

IF ON SKIN: WASH IMMEDIATELY WITH SOAP AND WATER.

IF IN EYES: FLUSH WITH WATER BEHIND EYE FOR MANY MINUTES AND SEND FOR ATTENTION.

NOTIFY TO PHYSICIAN: AND SEND A SAMPLE WITH LABEL AND CONTAINER TO YOUR NEAREST HOSPITAL OR PHARMACY.

SEE REAR AND SIDE PANELS FOR
ADDITIONAL PRECAUTIONS AND DIRECTIONS FOR USE

DO NOT REUSE THIS BOX

NOR-AM

NORAM CORPORATION

1000 S. West 10th Street, Box 20
Wilmington, DE 19803

NET CONTENTS:

PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Fatal if swallowed. Do not breathe spray mist. Can cause irreversible eye damage. May cause skin sensitization. Do not get in eyes, on skin or on clothing. Wear goggles, face shield or safety glasses. Wear a pesticide respirator approved jointly by the Mining Enforcement and Safety Administration (formerly U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes. Cover or incorporate spills. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area. Do not allow animals to graze in orchard areas treated with CARZOL SP.

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL —

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL —

Completely empty box into application equipment. Then dispose of empty box in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IN CASE OF FIRE, LEAKY OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-9300.

DIRECTIONS FOR USE

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

REENTRY STATEMENT:

Do not enter treated areas for 24 hours unless protective clothing is worn.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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:

DANGER: Area treated with CARZOL[®] SP on (date of application). Do not enter without appropriate protective clothing for 24 hours or until leaves are completely dry. In case of accidental exposure see Statement of Practical Treatment on the label.

CARZOL SP is completely soluble in water. Preparation of a premix or slurry before adding to the spray tank is not necessary. Add the desired amount of CARZOL SP directly to the spray tank 1/2 full of water with the agitator running. Then add the remainder of the water.

NOTE: CARZOL SP is not stable in alkaline water. Do not prepare the spray mixture until just before application. Do not prepare more spray mixture than will be used within 4 hours.

USE PRECAUTIONS

To avoid excessive residues, observe the following limitations

- CITRUS: Do not apply more than 5 lbs. CARZOL SP per acre in a 12 month period. Allow 30 days between applications.
NOTE: If brown soft scale is present in the grove, a suitable scallicide should be applied after the CARZOL SP application.
- APPLES, PEARS: Do not apply more than 4 lbs. CARZOL SP per acre in one crop season.
- PEACHES: Do not apply more than 2 1/2 lbs. CARZOL SP per acre in one crop season.
- NECTARINES: Do not apply more than 4 lbs. CARZOL SP per acre in one crop season.
- PLUMS, PRUNES: Do not apply more than 3 lbs. CARZOL SP per acre in one crop season.
- ALFALFA (Seed Crop Only): Use this product only on pure stands of alfalfa to be harvested for seed. Do not allow spray to drift onto adjacent crops. Do not spray while bees are visiting the treatment area. Do not allow livestock to graze treated fields. Do not use treated crops for livestock feed. Crop residues are not to be fed to livestock or baled for such use. Fields treated with CARZOL SP must be cleared after harvest by burning or by disking into the soil. CARZOL SP does not control aphids. If aphids appear, add an aphicide to the spray.
- Do not apply this product through any type of irrigation system.

To avoid excessive residues observe the pre-harvest intervals shown in the table.
For other use limitations see side panel under Use Precautions.

CROP	PEST	APPLICATION
ORANGES, LEMONS, TANGERINES, TANGELOS AND GRAPEFRUIT (Arizona only)	THRIPS	Apply ½ to 1½ lbs. of CARZOL SP per acre as outside coverage spray when thrips appear. For aerial applications, use a minimum of 10 gallons of water per acre. Apply as needed up to a limit of 5 lbs. CARZOL SP per acre per 12 month period. Allow 7 days before harvest.
Oranges, Lemons, Limes, Tangerines, Tangelos and Grapefruit (California only)	THRIPS	Apply ½ to 1½ lbs. of CARZOL SP per acre as outside coverage spray when thrips appear. For aerial application, use a minimum of 10 gallons of water per acre. Apply no more than twice per season. Allow 7 days before harvest.
Oranges, Lemons, Limes, Tangerines and Grapefruit (Florida)	APOPKA WEEVIL, CITRUS ROOT WEEVIL (BLUE-GREEN WEEVIL), FULLER'S ROSE BEETLE, LITTLE LEAF NOTCHER	Apply 1 lb. CARZOL SP as a concentrate spray of 100 gallons per acre, or less. Repeat application as needed. Allow 7 days before harvest.
Oranges, Lemons, Limes, Tangerines and Grapefruit (Florida)	RUST MITE	Apply 1 lb. CARZOL SP per acre. Repeat application as needed. Allow 7 days before harvest.
ORANGES, LEMONS, TANGERINES AND GRAPEFRUIT (Texas)	RUST MITE	Use 2-4 oz. CARZOL SP per 100 gallons of water when mites appear. For full cover dilute spray, apply 500 gallons of water per acre. Repeat application as needed. Allow 7 days before harvest.
APPLES	TENTIFORM LEAF MINER	Use 4-8 oz. CARZOL SP per 100 gallons of water at pink and petal fall. For full cover dilute spray, apply 400 to 800 gallons of water per acre depending on the size of the trees. For concentrate spray, apply 1-4 lbs. CARZOL SP per acre in at least 50 gallons of water. Allow 7 days before harvest.
APPLES	WHITE APPLE LEAFHOPPER	Use 2-4 oz. CARZOL SP per 100 gallons when leafhoppers appear. For full cover dilute spray, apply 400 gallons of water per acre. For concentrate spray, apply ½-1 lb. CARZOL SP per acre in at least 50 gallons of water. Repeat application as needed. Allow 7 days before harvest.
APPLES AND PEARS	EUROPEAN RED MITE, TWO-SPOTTED MITE	Use 4-8 oz. CARZOL SP per 100 gallons of water when mites appear. For full cover dilute spray, apply 400 to 800 gallons of water per acre depending on the size of the trees and severity of the mite infestation. For concentrate spray, apply 1-4 lbs. CARZOL SP per acre in at least 50 gallons of water. Repeat application as needed. Allow 7 days before harvest.
APPLES (Also see below for Arizona only)	THRIPS	Use 4-5 oz. CARZOL SP per 100 gallons of water at bloom and repeat as necessary thru petal fall. For full cover dilute spray, apply 400 gallons of water per acre. For concentrate spray or dilute application of less than 400 gallons, apply 1 to 1¼ lbs. CARZOL SP per acre in a minimum of 50 gallons of water per acre. Apply at night or while bees are not working in blooms. Allow 7 days before harvest.
PEARS	PEAR RUST MITE	Use 4 oz. CARZOL SP per 100 gallons of water. Apply post bloom to harvest at first indication of rust mite infestation. For full cover dilute spray, apply 400-800 gallons of water per acre depending on the size of the trees. For concentrate spray, apply 1-2 lbs. CARZOL SP per acre in at least 50 gallons of water. Repeat application as needed. Allow 7 days before harvest.
PEACHES AND NECTARINES	EUROPEAN RED MITE, McDANIEL MITE, TWO-SPOTTED MITE	Use 4 oz. CARZOL SP per 100 gallons of water when mites appear. For full cover dilute spray, apply 400 to 500 gallons of water per acre depending on the size of the trees. For concentrate spray, apply 1-1¼ lbs. CARZOL SP per acre in at least 50 gallons of water. Repeat application as needed. Allow 21 days before harvest for peaches, 14 days for nectarines.
PEACHES	LYGUS BUGS, STINK BUGS	Use 4 oz. CARZOL SP per 100 gallons of water at first sign of infestation. For full cover dilute spray, apply 400-500 gallons of water per acre. For concentrate spray, apply 1-1¼ lbs. CARZOL SP per acre. Repeat application as needed. Allow 21 days before harvest.
NECTARINES	THRIPS	Use 4-6 oz. CARZOL SP per 100 gallons of water when thrips infest blossoms through petal fall. For full cover dilute spray, apply 400 to 500 gallons of water per acre depending on the size of the trees. For concentrate or aerial spray, apply 1-2 lbs. CARZOL SP per acre. Apply at night or while bees are not working in blooms. Repeat application as needed. Allow 14 days before harvest.
PILIMS AND PRUNES	EUROPEAN RED MITE, McDANIEL MITE, TWO-SPOTTED MITE	Use 4 oz. CARZOL SP per 100 gallons of water when mites appear. For full cover dilute spray, apply 400 to 600 gallons of water per acre depending on the size of the trees. For concentrate spray, apply 1-1½ lbs. CARZOL SP per acre in at least 50 gallons of water. Repeat application as needed. Allow 7 days before harvest.
ALFALFA (seed crop only in California, Oregon, Washington, Idaho and Nevada. Use pre-bloom only on alfalfa in all areas except California.)	LYGUS BUGS	Use ½-1 lb. CARZOL SP per acre. Apply when lygus bugs reach damaging numbers. Repeat application as needed. Consult your State Agricultural Experiment Station or State Extension Service Specialists for proper timing.
	CONSPERSE STINK BUGS (California only)	Use 1 lb. CARZOL SP per acre for knockdown of a heavy nymphal population. A lygus control program will control stink bugs. When applied by air use a minimum of 5 gallons per acre. When applied by ground use a minimum of 20 gallons per acre.
	TWO-SPOTTED MITE	Use ½-1 lb. CARZOL SP per acre. Apply when mites appear. When applied by air use a minimum of 10 gallons of spray per acre. When applied by ground use a minimum of 20 gallons per acre. Repeat application as needed.

IMPORTANT: READ BEFORE USE

By using this product, user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM FAILURE TO USE THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS.

LIMITATIONS OF LIABILITY: In no event shall NOR-AM Chemical Company's liability for damages arising out of the use of this product exceed the purchase price of the product used.

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