

OCT 19 1993

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

Subject: Labeling--General Revisions; Worker Protection
Carzol SP
EPA Registration Number 45639-74
Your Application Dated August 25, 1993

Dear Mr. Vukich:

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 change indicated below before you release the product for shipment bearing the amended labeling:

Revise the "Agricultural Use Requirements" text as indicated in the Agency letter, dated October 8, 1993, regarding compliance with Worker Protection Standard (WPS) requirements.

Submit five (5) 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 yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

SPECIMEN LABEL

with COMMENTS
in EPA Letter Dated

OCT 19 1993

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

45639-74

FOR AGRICULTURAL USE ONLY

CARZOL[®] SP

MITICIDE/INSECTICIDE

ACTIVE INGREDIENT:

Formetanate hydrochloride*

Percent by Weight

92%

INERT INGREDIENTS:

8%

TOTAL

100%

*N, N-dimethyl-N'[3-[[[(methylamino)carbonyl]oxy]phenyl]
methanimidamide monohydrochloride

EPA Reg. No. 45639-74

EPA Est. No. 33689-WG-1

KEEP OUT OF REACH OF CHILDREN



DANGER — POISON

PELIGRO — VENENO



Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

THIS PRODUCT IS AN N-METHYL CARBAMATE.

IF SWALLOWED: 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. Get medical attention.

IF ON SKIN: Wash immediately with soap and water.

IF IN EYES: Flush with water for at least 15 minutes and get medical attention.

NOTICE TO PHYSICIAN: CARZOL[®] SP is a carbamate which acts as a cholinesterase inhibitor. Specific antidote — Atropine. Do not use 2-PAM.

SEE REAR AND SIDE PANELS FOR
ADDITIONAL PRECAUTIONS AND DIRECTIONS FOR USE
DO NOT REUSE THIS BOX

 **NOR-AM**

NOR-AM CHEMICAL COMPANY
A Schering-Plough Company

AGRI-BUSINESS DIVISION
Little Falls Centre One
2711 Centerville Road
Wilmington, DE 19808

NET CONTENTS:

U.S. Patent Nos. 3,336,186; Re 27,347; 3,542,853

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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.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other handlers must wear:

- Long-sleeved shirt & long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- For exposure outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturers instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240 (d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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.

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.

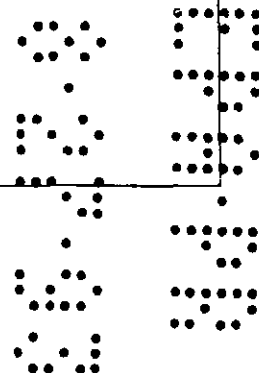
AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR 170. This Standard contains requirements for the protection of agricultural 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 48 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
- Protective eyewear



CARZOL SP is completely soluble in water. Preparation of a premix of slurry before adding to the spray tank is not necessary. Add the desired amount of CARZOL SP directly to the spray tank ½ 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:

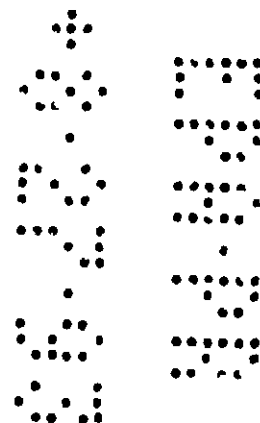
- ☐ CITRUS: Do not apply more than 5 lbs. CARZOL SP per acre in a 12 month period.

Arizona and California: Allow 14 days between applications.

Florida and Texas: 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 2½ 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 more than 2 lbs. CARZOL SP per acre per season. Do not make more than 2 applications of CARZOL SP per season. Allow 21 days before harvest.
- ☐ 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 1/2 to 1 1/2 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 1/2 to 1 1/2 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 1/2 to 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 1/2-1 lb. CARZOL SP per acre in at least 50 gallons of water. Repeat application as needed. Allow 7 days before harvest.
APPLES (except California)	CAMPYLOMMA	Use 4 oz. CARZOL SP per 100 gallons of water at pre-bloom/bloom and repeat as necessary through 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 lb. CARZOL SP per acre in a minimum of 50 gallons of water per acre. For aerial applications, use a minimum of 10 gallons of water per acre. Apply at night or while bees are not working in blooms. 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 through 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 1 1/2 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 1-1 1/2 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 1-1 1/2 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.
PLUMS 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 1-1 1/2 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 1/2-1 lb. CARZOL SP per acre. Apply when lygus bugs reach damaging numbers. Consult your State Agricultural Experiment Station or State Extension Service Specialist 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 1/2-1 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.

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IMPORTANT: READ BEFORE USE

By using this product, user or buyer 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. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR 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 SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT NOR-AM'S ELECTION, THE REPLACEMENT OF PRODUCT.

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