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



JUL 7 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Kyla Smith Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569

Subject:

Submission of amended labeling per September 2007 Formetanate HCl

RED Label Table

EPA Reg. No. 10163-265

Submissions dated May 19, 2009

Dear Ms. Smith:

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable under FIFRA § 3(c)(5) provided that you submit two copies of your final printed label before you release the product for shipment. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

The basic Confidential Statement of Formula (CSF) dated 2/22/10 is acceptable. All other CSF's have been superseded by this new basic. This has been added to your record.

Your product has met and complied with the risk mitigation provisions of the Formetanate HCl RED and therefore your product is reregistered pursuant to FIFRA § 4(g)(2)(C). But note, EPA is currently reassessing the cumulative impacts of carbamates and that review may impact your product once complete.

A stamped copy is enclosed for your records. If you have any questions, please contact Marianne Lewis at (703) 308-8043 or lewis.marianne@epa.gov.

Regards,

Venus Eagle, PM 01

Insecticide-Rodenticide Branch Registration Division (7505P)

Enclosure

RESTRICTED USE PESTICIDE

Due to acute oral toxicity

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



IN WATER SOLUBLE PACKAGING For Agricultural Use Only

Under the Federal Insecticite, Fungicide, and Rodenticide Act, as amended, for the pesticide Registered under EFA Reg. No. 10/63-765

DANGER – POISON PELIGRO - VENENO



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

	FIRST AID	
If swallowed	Call poison control center or doctor immediately for treatment advice.	
	Have person sip a glass of water if able to swallow.	
	Do not induce vomiting unless told to by the poison control center or doctor.	
	Do not give anything by mouth to an unconscious person.	
If inhaled	Move person to fresh air.	
	If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth	
	if possible.	
	Call a poison control center or doctor for further treatment advice.	
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if	
	present, after the first 5 minutes, then continue rinsing.	
	Call a poison control center or doctor for treatment advice.	
If on skin or clothing	Take off contaminated clothing.	
•	Rinse skin immediately with plenty of water for 15-20 minutes.	
	Call a poison control center or doctor for treatment advice.	
	HOT LINE NUMBER	
Have the product contained	er or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-	
888-478-0798 for emerge	ncy medical treatment information.	
	NOTE TO PHYSICIAN	
Carzol SP is a carbamate	which acts as a cholinesterase inhibitor. Specific antidote – Atropine. Do not use 2-PAM.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Do not breathe dust. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

NET CONTENTS POUNDS



Produced For: Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride and viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, Loaders, Applicators, Flaggers and Other Handlers Must Wear:

- · Long-sleeved shirt and long pants,
- Shoes plus socks,
- · Chemical-resistant gloves and apron for mixers and other handlers exposed to the concentrate
- Applicators using groundboom must wear a NIOSH-approved respirator with:
 - a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or
 - any N, R, P, or HE filter. N designation for respirator filters does not apply when application is made with oils.

See Engineering Controls for Additional Requirements.

Applicators Involved in Airblast Applications Must Wear:

- · Coveralls worn over long-sleeved shirt and long pants
- Chemical resistant gloves
- · Protective eyewear
- · Chemical-resistant footwear plus socks
- · Chemical-resistant headgear
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter).

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

ENGINEERING CONTROLS STATEMENTS

Applicators using airblast equipment and flaggers must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR170.240(d)(4-5), the handler PPE requirements may be reduced or modified as specified in the WPS. In addition, applicators must:

- · Wear the personal protective equipment required in the PPE section of this labeling for applicators involved in airblast application,
- Either wear the type of respirator specified in the PPE section of this labeling or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the type of respirator specified in the PPE section of this labeling,
- Be provided and have immediately available for use in an emergency when they must exit the cab in the treated area: coveralls, chemical resistant gloves, chemical resistant footwear, chemical resistant headgear (if overhead exposure). And if using an enclosed cab that provides respiratory protection, a respirator of the type specified in the PPE section of this labeling.
- Take off any PPE that was worn in the treated area before reentering the cab, and store all such PPE in a chemical resistant
 container, such as a plastic bag, to prevent contamination of the inside of the cab.

Water-soluble packets when used correctly qualify as a closed mixing system under Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (5)]. Mixers and loaders using water-soluble packets must: wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders, and be provided and must have immediately available for use in an emergency, such as a broken package, spill or equipment breakdown; chemical-resistant footwear and the respirator as specified in the PPE section of the label

Pilots must use enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (6)].

USER SAFETY RECOMMENDATION

- · Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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 toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical can contaminate surface water through spray applications. Under some conditions, it may also have a potential for runoff into surface water after application.

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 treated orchard areas.

DIRECTIONS FOR USE Restricted Use Pesticide

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 Part 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:

- 9 days for citrus,
- 5 days for nectarines,
- 4 days for alfalfa grown for seed.

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.
- · Chemical-resistant gloves,
- Shoes plus socks

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

PRECAUTIONS AND RESTRICTIONS

CARZOL SP is completely soluble in water. Preparation of a premix of slurry before adding to the spray tank is not necessary. Fill the spray tank with one-half of the total amount of water to be used. After opening each container to be used, open its foil liner. Immediately dump the soluble bag(s) into the mix tank. Fill the tank with the additional quantity of water required and then start the agitator. Refer to the chart below to determine the proper dosage of CARZOL SP.

DOSAGE CHART FOR CARZOL SP

Desired Rate of CARZOL SP per acre (lbs.)	Desired Rate of CARZOL SP per acre (ozs.)	One 2.5 lb. package of CARZOL SP will treat this many acres at the desired rate
0.5	8	5.0
0.625	10	4.0
1.0	16	2.5
1.25	20	2.0

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.

- Do not make more than one (1) application of CARZOL SP per season, except as noted below
- Do not apply this product through any type of irrigation system

CROP	PEST	APPLICATION	
ORANGES, TANGERINES, TANGELOS and	Thrips	Apply 0.5 to 1.25 lbs. of CARZOL SP per acre as outside coverage spray when thrips appear.	
GRAPEFRUIT (Arizona Only)	 Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 9 days. Do not apply more than 1.25 lbs. CARZOL SP per acre in one crop season. Do not apply after fruit reach a diameter of one inch. If unharvested grapefruit and Valencia oranges are present from the previous crop, an application may be made to the new crop. However, a preharvest interval of 30 days must be observed for the unharvested crop. Note: If soft brown scale is present in the grove, a suitable scallicide should be applied after the CARZOL SP application. Aerial applications to orchard crops is prohibited. 		
LEMONS (Arizona Only)	Thrips	Apply 0.5 to 1.25 lbs. of CARZOL SP per acre as outside coverage spray when thrips appear.	
	 Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 9 days. Do not apply more than 1.25 lbs. of CARZOL SP per acre in one crop season. Do not apply within 60 days of harvest. Note: If soft brown scale is present in the grove, a suitable scallicide should be applied after the CARZOL SP application. Aerial applications to orchard crops is prohibited. 		

GRAPEFRUIT (Texas) ORANGES, LEMONS,	 Do not apply more than 1.25 li Do not apply after fruit reach a If unharvested grapefruit and li 	o treated areas during the restricted entry interval (REI) of 9 days. bs. CARZOL SP per acre in one crop season.			
ORANGES, LEMONS.	If unharvested grapefruit and \	a diameter of one inch.			
ORANGES, LEMONS.	unharvested crop.	If unharvested grapefruit and Valencia oranges are present from the previous crop, an application may be made to the new crop. However, a preharvest interval of 30 days must be observed for the			
ORANGES, LEMONS.	 Note: If soft brown scale is present in the grove, a suitable scallicide should be applied after the CARZOL SP application. Aerial applications to orchard crops is prohibited. 				
LIMES, TANGERINES, TANGELOS and GRAPEFRUIT (California Only)	Thrips Apply 0.5 to 1.25 lbs. of CARZOL SP per acre as outside coverage spray when thrips appear. Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 9 days. Do not apply more than 1.25 lbs. CARZOL SP per acre in one crop season. Do not apply after fruit reach a diameter of one inch. If unharvested grapefruit and Valencia oranges are present from the previous crop, an application may be made to the new crop. However, a preharvest interval of 30 days must be observed for the				
	 unharvested crop. Note: If soft brown scale is present in the grove, a suitable scallicide should be applied after the CARZOL SP application. 				
NECTARINES (California, Washington and Oregon only)	Aerial applications to orchard Thrips	Use 4 oz. CARZOL SP per 100 gallons of water when thrips infest blossoms through petal fall. For full cover dilute spray, apply 400 gallons of water per acre depending on the size of the trees. For concentrate, apply 1 to 1.25 lbs. CARZOL SP per acre in at least 50 gallons of water. Apply at night or while bees are not working in blooms.			
	European Red Mite, McDaniel Mite, Twospotted 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 to 1.25 lbs. CARZOL SP per acre in at least 50 gallons of water.			
		o treated areas during the restricted entry interval (REI) of 5 days. bs. CARZOL SP per acre in one crop season. petal fall.			
	Aerial applications to orchard				
ALFALFA (seed crop only in California, Oregon, Washington, Idaho and Nevada. Use pre-bloom only on alfalfa in all listed areas except California and Idaho. Post-bloom applications allowed in California and Idaho.)	Lygus Bugs	Use ½ to 1 lb. CARZOL SP per acre. Apply when lygus bugs reach damaging numbers.			
	Consperse Stink Bugs	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.			
	Twospotted Mite	Use ½ to 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.			
	 Hand harvesting prohibited. Use this product only on pure Do not allow spray to drift onto Do not spray while bees are vi Do not allow livestock to graze are not to be fed to livestock o after harvest by burning or by CARZOL SP does not control Do not apply more than 1 lb. C The pre-harvest interval is 21 Idaho only: Treated seed is n at processing plants "NOT FO responsibility to notify the processing plants" 	o treated areas during the restricted entry interval (REI) of 4 days. stands of alfalfa to be harvested for seed. o adjacent crops. isiting the treatment area. o treated fields. Do not use treated crops for livestock feed. Crop residues or baled for such use. Fields treated with CARZOL SP must be cleared disking into the soil. aphids. If aphids appear, add an aphicide to the spray. CARZOL SP per acre in one crop season.			

AERIAL SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

1. The distance of the outer-most nozzles on the boom must not exceed 75% the length of the wingspan or rotor.

2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

3. Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Do not apply when gusts or sustained winds exceed 15 mph.

Where States have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY

This section is advisory in nature and does not supersede the mandatory label requirements.

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see Wind, Temperature, and Humidity, and Temperature Inversions).

Controlling Droplet Size:

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher-rated flows produce larger droplets.

Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: For some use patterns, reducing the effective boom length to less than 75% of the wingspan or rotor length may further reduce drift without reducing swath width.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product in original container only, away from other pesticides, fertilizers, food or feed.

PESTICIDE DISPOSAL: 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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of empty outer pouch in trash as long as WSP is unbroken.

DO NOT REUSE EMPTY CONTAINERS.

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 OF CONDITIONS OF SALE AND WARRANTY AND LIABILTY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our recommendations for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application contrary to label instructions, and other factors, all of which are beyond the control of Gowan Company. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label and is reasonably fit for the intended purpose referred to on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

TO THE EXTENT CONSISTEN WITH APPLICABLE LAW, GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

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EPA Text Pending: Carzol SP (to EPA 6-17-11)