

NET CONTENTS 1.5 kg

GROUP	1 A	INSECTICIDE
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**CARZOL SP
MITICIDE-INSECTICIDE SOLUBLE POWDER**

RESTRICTED



**DANGER
POISON**

GUARANTEE: Formetanate hydrochloride 92%

**REGISTRATION NO.: 11144
PEST CONTROL PRODUCTS ACT**

READ THE LABEL BEFORE USING

**Gowan Company
P. O Box 5569
Yuma, AZ USA 85366-5569**

Telephone: (928) 783-8844

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN: This product is poisonous if swallowed. Do not get in eyes, on skin, or on clothing. Do not breath dust or spray mist. Do not contaminate food and feed. Wear protective clothing, goggles and chemical-resistant gloves when handling this material. Wash before eating, smoking or drinking. Wash contaminated clothing before reuse. If exposure by inhalation of dust or spray mist is likely to be encountered, wear an appropriate respirator mask. This product is poisonous to birds and other wildlife. Do not contaminate ponds, lakes or streams by cleaning of equipment, or disposal of wastes. Do not apply when the prevailing wind direction will cause drift from treated areas into lakes, ponds, and other waterways. Do not apply to areas with a potential for runoff to aquatic systems. Do not apply to coarse textured soils, to prevent leaching to groundwater. Do not apply when rain is forecast. This product is poisonous to bees; avoid its use where bees are active. Do not allow livestock to graze in areas treated with CARZOL SP.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: www.croplife.ca.

FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for 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 eye. Call a poison control centre or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and the Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: CARZOL SP is a carbamate which acts as a cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM.

DISPOSAL: 1. Do not reuse container. 2. Make the empty container unsuitable for future use. 3. Dispose of the container in accordance with provincial requirements. 4. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

STORAGE: Avoid exposure of CARZOL SP to excess moisture or physical damage during handling or storage.

IN CASE OF FIRE, SPILLS, LEAKY OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TELEPHONE TO 1-888-478-0798

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Carzol SP contains a Group 1A acaricide/insecticide. Any insect population may contain individuals naturally resistant to Carzol SP and other Group 1A acaricides/insecticides. The resistant individuals may dominate the insect population if this group of acaricides/insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Carzol SP or other Group 1A acaricides/insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Gowan Company at (800) 783-8844 or at www.gowanco.com.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION

This product is to be stored and displayed apart from food or feed.

RESTRICTED USES

DIRECTIONS FOR USE: Mixing:

CARZOL SP is completely soluble in water. It is not stable in alkaline water. Prepare the spray mixture just before application and spray entire contents of tank within 4 hours. CARZOL SP is compatible with most commonly used insecticides and fungicides except lime and Bordeaux mixture.

CROP: Apple, Pear, Peach, Nectarine

INSECT: European Red Mite, Two-Spotted Spider Mite, White Apple Leafhopper (**apples only**)

METHOD: Use sufficient water for good coverage. Direct nozzles of air blast sprayer into the targeted tree orchard when spraying the border rows. DO NOT apply when the prevailing wind direction will cause drift from treated areas into lakes, ponds and other waterways. When using concentrate spray, apply same quantity of CARZOL SP per hectare as for dilute spray.

Apples, Pears: Apply when mites or insects are first noticed and repeat as needed. Do not apply later than 1 day before harvest on apple and pear. To avoid excessive residue, do not apply more than 4.48 kg per hectare after Calyx.

Peaches, Nectarines: Apply when a threshold of 5-10 active mites per leaf is reached (mid-July to early August). The majority of the mite population should be in the young nymphal stage. Do not apply later than 21 days before harvest. Do not apply more than once per year.

RATE: 250-500 g per 100 litres of dilute spray (4000-5000L of water per ha) or AT LEAST 1.1 kg per hectare.

Do not allow livestock to graze in treated orchard.

AERIAL APPLICATION

DIRECTIONS FOR USE: Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

USE PRECAUTIONS:

Apply on when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module*, developed by CAPCO.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as a shelter-belt) or aquatic habitat.

OPERATOR PRECAUTIONS:

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot has communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical-resistant gloves, coveralls and goggles or face shield during mixing/loading, clean up and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at (928)783-8844 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 4000 litres per hectare.

FOR EMERGENCY USE ONLY

**For sale and use in the provinces of Ontario, Manitoba, Nova Scotia and Alberta
for control of Onion Thrips on Dry Bulb Onions until October 31, 2010.**

GROUP

1A

INSECTICIDE

CARZOL® SP

MITICIDE-INSECTICIDE SOLUBLE POWDER

RESTRICTED



**DANGER
POISON**

**POTENTIAL SKIN SENSITIZER
EYE IRRITANT**

GUARANTEE: Formetanate hydrochloride.....92%

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KEEP OUT OF REACH OF CHILDREN**

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Yuma, Arizona USA 85366-5569

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If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for 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 continuing rinsing eye. Call a poison control centre or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and the Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

CARZOL SP is a carbamate which acts as a cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN: Fatal or poisonous if swallowed. Do not get in eyes, on skin or on clothing. Causes eye irritation. Potential skin sensitizer. Do not breathe dust or spray mist. May be fatal if inhaled. Do not contaminate food and feed. While mixing/loading and applying, wear cotton coveralls over long pants and long-sleeved shirt, shoes plus socks and chemical resistant gloves. In addition, wear goggles while mixing and loading. Wash before eating, smoking or drinking. Wash contaminated clothing before reuse. If exposure by inhalation of dust or spray mist is likely to be encountered, wear an appropriate respirator mask. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 6 days.

TOXIC to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**. **TOXIC** to birds. **TOXIC** to small wild mammals. **TOXIC** to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as clay). Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca.

DISPOSAL:

1. Do not reuse container.
2. Make the empty container unsuitable for future use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

STORAGE:

Avoid exposure of CARZOL SP to excess moisture or physical damage during handling or storage.

IN CASE OF EMERGENCY INVOLVING A POISONING, CALL PROSAR AT 1-888-478-0798.

IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL OR FIRE, CALL CHEMTREC® AT 1-800-424-9300.

DIRECTIONS FOR USE:

CROP	PEST	APPLICATION
DRY BULB ONIONS	ONION THRIPS	One application – Use one application of Carzol SP at a rate of 1.4 kg per hectare.
		Two applications – Use two applications of Carzol SP at a rate of 0.84 kg per hectare. Apply on a 7-10 day interval. Do not exceed 1.68 kg per hectare.

- DO NOT APPLY BY AIR.
- During a groundboom application use a closed cab that provides both a physical barrier and respiratory protection (i.e., dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.
- Use the high rate when insect pressure is high.
- For ground application, use a minimum of 94 L/ha water.
- Do not apply this product through any type of irrigation system.
- Do not apply within 30 days of harvest.
- Do not allow spray to drift onto adjacent crops.
- Crop residues are not to be fed to livestock.
- Carzol SP is a carbamate insecticide. Rotate to another mode of action after applying one or two applications as specified in the use directions above.
- **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty.
- Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.
- The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Freshwater Habitat of Depths	
		Less than 1 m	Greater than 1 m
Field Sprayer	Onions	1	1

When a registered tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Carzol SP contains a Group 1A insecticide. Any insect population may contain individuals naturally resistant to Carzol SP and other Group 1A insecticides. The resistant individuals may dominate the insect/mite population if this group of insecticides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Carzol SP or other Group 1A insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Gowan Company at 1-800-883-1844 or at www.gowanco.com.

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22-JUL-2010 2010-3140

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