

GROUP 1 A INSECTICIDE

CARZOL[®] SP INSTAPAK[®]
MITICIDE-INSECTICIDE SOLUBLE POWDER
In Water-Soluble Bags

RESTRICTED

DANGER



POISON

READ THE ENTIRE POUCH LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

DO NOT REMOVE WATER-SOLUBLE BAG FROM POUCH UNTIL NEEDED FOR APPLICATION

KEEP WATER-SOLUBLE BAG DRY AND DO NOT ALLOW WATER-SOLUBLE BAG TO CONTACT ANY MOIST SURFACE PRIOR TO ADDING TO SPRAY TANK

KEEP WATER-SOLUBLE BAG IN THE PROTECTIVE POUCH AND STORE IN A COOL, DRY PLACE

GUARANTEE: Formetanate hydrochloride 92%

REGISTRATION NO.: 29991
PEST CONTROL PRODUCTS ACT

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.

NET CONTENTS 13.2 kg
(12 x 1.1 kg water-soluble bag)

Gowan[™]
CANADA
Gowan Company
P. O Box 5569
Yuma, AZ USA
85366-5569

Product Information: 1-800-883-1844
For Medical Emergencies: 1-888-478-0798 (24 hours)
For Spills, Leaks or Fire: 1-800-424-9300 (24 hours)

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN: Water-soluble bags (WSB) are contained in a protective pouch. Do not open WSB or allow WSB to become wet prior to adding to the spray tank. This product is poisonous if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe dust or spray mist. Do not contaminate food and feed. Wear protective clothing and equipment when handling this material. Wash before eating, smoking or drinking. Wash contaminated clothing before reuse. 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. Time applications to coincide with periods of minimum bee activity. Do not allow livestock to graze in areas treated with CARZOL SP Instapak.

PROTECTIVE CLOTHING AND EQUIPMENT:

- Respirators are required for all mixer/loaders.
- During airblast 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). During application wear long-sleeved shirt, long pants and chemical resistant gloves. Keep the following personal protective equipment immediately available for use in case of emergency (i.e. a broken package, spill or equipment breakdown): chemical-resistant coveralls, chemical-resistant gloves, chemical-resistant headgear and a respirator.
- If a closed cab is not used, wear long pants, long-sleeved shirt, shoes plus socks, chemical-resistant gloves, chemical-resistant headgear and chemical-resistant coveralls and NIOSH approved respiratory protection. Chemical-resistant headgear includes So'westers or large brimmed waterproof hats and hoods with sufficient neck protection. Avoid touching face or other unprotected parts of the body during application.

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.

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 continuing rinsing eye. Call a poison control centre or doctor for treatment advice.

If inhaled: 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 Instapak is a carbamate which is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include malaise, muscle weakness, dizziness and sweating. Headache, salivation, nausea, vomiting, abdominal pain and diarrhea are often prominent. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). However, if a blood sample is taken several hours after exposure, it is unlikely that blood cholinesterase activities will be depressed, due to rapid reactivation of cholinesterase. Atropine, only by injection, is the preferable antidote. Do not use pralidoxime. In cases of severe acute poisoning use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

ENVIRONMENTAL HAZARDS:

- **TOXIC** to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**.
- **TOXIC** to birds.
- **TOXIC to small wild animals.**
- **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 woodlands.
- 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.

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.

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:

Do not subject to temperatures below 0°C. At temperatures below 0°C, soluble film packaging becomes susceptible to cracking and breakage. Store in a cool, dry place. Do not store at temperatures above 40°C. To prevent contamination, store product in original container only, away from other pesticides, fertilizer, food or feed.

**IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, LEAK OR FIRE CALL CHEMTREC® AT
1-800-424-9300
FOR MEDICAL EMERGENCIES CALL 1-888-478-0798**

2012-5943 soluble bag

2013-08-22

GROUP 1 A INSECTICIDE

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MITICIDE-INSECTICIDE SOLUBLE POWDER
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RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that CARZOL SP Instapak contains a Group 1A acaricide/insecticide. Any insect population may contain individuals naturally resistant to CARZOL SP Instapak 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 Instapak 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 1-800-883-1844 or at www.gowanco.com.

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NATURE OF RESTRICTION

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

RESTRICTED USES

DIRECTIONS FOR USE:

- **CARZOL SP** Instapak is packaged in a WSB that is to be dropped into the spray tank unopened.
- **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.

R.E. Airblast or Mist blower application:

- **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site, as measured outside of the treatment area on the upwind side.
- **DO NOT** apply this product by aircraft.
- 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	Buffer Zones (metres) Required for the Protection of Freshwater Habitat of Depths:	
		Less than 1 m	Greater than 1 m
Airblast (early and late growth stages)	Nectarines	3	1

When a 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.

MIXING INSTRUCTIONS

The enclosed WSB containing CARZOL SP Instapak is water soluble. Do not allow the WSB to become wet prior to adding the spray tank. Do not handle with wet hands.

WARNING: Ensure that the spray tank, pump and lines are clean and do not contain boron or any substances releasing free chlorine. Any boron or free chlorine will cause incomplete dissolution of the water-soluble film which will result in plugging of the sprayer pump, lines, or screens.

Half fill the spray tank with water (see WARNING above). With agitator operating, add the desired number of 1.1 kg WSB. Do not exceed the maximum label rate. If there is a screen in the fill opening, place WSB on the screen and direct water flow onto them. Do not cut open the WSB. Add balance of water to fill tank. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the WSB should be completely dissolved within approximately 5 to 10 minutes from the time they were added to the water. Do not use WSB in a tank-mix with products that contain boron or release free chlorine.

CARZOL SP Instapak 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 Instapak is compatible with most commonly used insecticides and fungicides except lime and Bordeaux mixture. The WSB of CARZOL SP Instapak must be added to the spray water and the WSB film must be completely dissolved before any other products are added.

Crop: Nectarine

Insect: European Red Mite, Two-Spotted Spider Mite

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 Instapak per hectare as for dilute spray.

Nectarines: Pesticide products containing the active ingredient formetanate hydrochloride should not be applied after petal fall. Late season applications are not permitted. The majority of the mite population should be in the young nymphal stage.

Rate: Use 275-350g product per 1000L of dilute spray (4000-5000L of water per hectare).

Rate per hectare	Minimum	Maximum
Product / ha	1.1 kg	1.40 kg
Rate a.i. / ha	1.0 kg	1.29 kg

Rate per 5 hectare	Minimum	Maximum
Product / 5 ha	5 bags	6 bags

DO NOT exceed 1.4 kg product/ha for all crops.
DO NOT apply more than once per growing season.

USE PRECAUTIONS:

For commercial orchard use only. Do not use in residential areas such as parks, schools or backyards. Do not allow livestock to graze in treated orchard.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

RESTRICTED-ENTRY INTERVAL:

The following restricted-entry intervals must be observed by workers re-entering the treated areas for these crops.

Crop	Activity	REI (days)
Nectarines	Thinning	19
	Harvesting, propping, pruning, training	14
	Weeding, irrigating, scouting	12

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