

34704-447

9-2-2003  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

SEP 2 2003

Ms. Glenda Haage  
Platte Chemical Co.  
7251 W. 4<sup>th</sup> Street  
PO Box 667  
Greely, CO 80632-0667

Dear Ms. Haage:

Subject: Revised Labeling and Confidential Statement of Formula  
Carbaryl 4L  
EPA Registration No. 34704-447  
Your Submission Dated January 15, 2003

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes before you release the product for shipment bearing the amended labeling:

1. Revise the Precautionary Statements as follows: "Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing of spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse."

Move the sentence, "Do not use this product in food areas...where food is prepared or processed" to the Directions for Use.

2. Under Environmental Hazards delete the phrase, "For terrestrial uses." Your product only has terrestrial uses.
3. In our July 15, 2002 letter we requested the deletion of certain uses from your labeling because they were not found on your technical source's label. Some of these uses still appear on the subject label. We will allow these uses to remain on the label for now. However, we will readdress this subject during carbaryl product reregistration.

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The confidential statement of formula for the basic formulation dated January 15, 2003 is acceptable. This CSF has been added to your file and supercedes all pervious versions.

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. If you have any questions, please contact me at (703) 308-6249 or hebert.john@epa.gov.

Regards,

John Hebert

Insecticide-Rodenticide Branch  
Registration Division (7505C)

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# CARBARYL 4L

## Insecticide

**For Agricultural And Commercial Use Only**  
**N-Methyl Carbamate Insecticide**

ACTIVE INGREDIENT:	Carbaryl (1-naphthyl N-methylcarbamate) .....	43.0%
INERT INGREDIENTS	.....	57.0%
	Total	100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

EPA REG NO. 34704-447

EPA EST. NO. \_\_\_\_\_

NET CONTENTS \_\_\_\_\_ GALS. ( \_\_\_\_\_ KG)

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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

**MAY BE HARMFUL IF SWALLOWED.** Avoid breathing of spray mist. Do not take internally. Avoid contact with skin, eyes and clothing. Do not use this product in food areas of commercial food-handling establishments, restaurants or other places where food is prepared or processed.

**Personal Protective Equipment (PPE):**

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

Follow manufacturer's instructions for cleaning and 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 carts, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.340(d)(4)-(5)), 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.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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.

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**

SEP 2 2003

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

34704-447

**FIRST AID**

If swallowed:	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have a person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-30 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing:	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-30 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled:	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-226-8834, EXT. 136, OR CALL COLLECT, 612-651-6166, EXT. 136. Have the product container or label with you when calling a poison control center or doctor, or going to treatment.**

**NOTE FOR PHYSICIANS:** Carbaryl contains an N-methyl carbamate that inhibits cholinesterase. Atropine is antidoted.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to aquatic and estuarine invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to tidalized areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning equipment or disposal of wash waters.

**BEE CAUTION**

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops and weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**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 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.

# CAR<sup>®</sup> RYL 4L EPA REG. NO. 34704-447

Agricultural Use Requirements cont'd.:  
Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 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 and shoes plus socks.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

The area being treated must be vacated by unprotected persons.

Keep unprotected persons out of treated areas until sprays have dried.

## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

**STORAGE:** Store in a safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** METAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities; PLASTIC: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, etc., if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## GENERAL INFORMATION

This product is a suspension of a microfine carbaryl insecticide in an aqueous medium. It is dispersible in water and may be applied by ground or air.

## PREPARATION OF SPRAY

Before using, agitate, stir or rock-mix product in container to assure product uniformly. Be certain mix tanks and entire spray system are clean and free from foreign matter. Flush with clean water. Fill tank ½ to ¾ with desired amount of water. Begin agitating tank and slowly add the required amount of this product. Add the remaining volume of water. Continuously agitate spray during mixing and application to assure a uniform suspension. Do not store spray mix for prolonged periods. Prepare only as much spray mix as can be applied on the day of mixing.

## PRODUCT COMPATIBILITY

When diluted with an equal volume of water, this product may be tank mixed with a wide range of pesticides. If compatibility with another product and the resulting crop response are unknown, the combination should be tested on a small scale. Do not mix this product with diesel fuel, kerosene, fuel oil or aromatic solvents.

When tank mixing, first add this product to at least an equal volume of water, mix thoroughly, and then add combination products. Do not apply this product in a tank mix unless previous experience indicates that the mixture is effective and will not result in application problems, excessive residues, or plant injury. Observe all precautions and limitations on labeling of all products used in mixtures.

This product is unstable under highly alkaline conditions and is not effective if used with alkaline materials such as Bordeaux, lime-sulfur and casein-lime spreaders.

## APPLICATION

For all applications, use sufficient spray volume to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required volume. Use 50 mesh strainers in spray system and 25 mesh stainless strainers behind nozzles.

To clean spray system after use, drain and flush with a water and detergent mixture. Rinse thoroughly with clean water. Refer to the Storage and Disposal section for disposal instructions.

Note: Staining may occur on certain surfaces such as stucco, brick, cinder block, and wood. Spray deposits on painted or stained surfaces or finishes (i.e., cars, houses, trailers, boats, etc.) should be immediately removed by washing to prevent discoloration. Avoid applications to surfaces where visible spray residues are objectionable.

### Ground Application

Apply in sufficient volume for adequate coverage on all crops and sites. To prepare small volumes of spray mixture, use ½ fl. oz. (approximately 2 teaspoons) of this product in an adequate amount of water and apply to 500 sq. ft. where rates of 1 quart per acre are indicated.

### Aerial Application

For adequate distribution, use at least 10 gallons of spray mixture per acre for application for tree and orchard crops or at least 2 gallons of spray mixture per acre for application to other crops.

## Sprinkler Irrigation Systems

Apply this product only through sprinkler irrigation systems including center pivot and solid set. Do not apply this product through any other type of irrigation system. General Instructions for Applications through Sprinkler Irrigation Systems. Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of more dilute solution per unit time. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to public water systems unless the label-prescribed safety devices for public water supplies are in place.

### Roundworm Species

All references to armyworms on the crops listed below refer to the species, *Pseudaletia unipuncta*. Except where indicated otherwise, this product is not registered for the control of other armyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworm, diamondback moth, Colorado potato beetle and Southern green stink bug to carbaryl. If local experience indicates inadequate control, use an alternative pesticide.

## CAUTIONS AND RESTRICTIONS

Carbaryl 4L Insecticide is a suspension of microfine brand carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by air or ground.

### PLANT RESPONSE PRECAUTIONS

Application to wet foliage or during periods of high humidity may cause injury to tender foliage. Do not use on Boston ivy, Virginia creeper and maidenhair fern as injury may result. Carbaryl may also injure Virginia and sand pines. The use of adjuvants may increase the potential for crop injury to sensitive crops.

### PRE-HARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the use of labeled crops bearing probable carbaryl residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. Do not apply at greater rates or at more frequent intervals than stated on the label. To do so may result in illegal residues in crops, meat, and milk.

Do not use reclaimed irrigation water from crops treated with carbaryl or crops for which carbaryl tolerances are not established.

Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.

### FRUIT, VEGETABLE, GRAIN CROPS, & TOBACCO

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, or other qualified authorities to determine appropriate threshold levels for treatment and specific use information in your area. Where a dosage range is indicated, use the lower rate on light to moderate infestations, young plants and early instars and use the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

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CROP	INSECT	GTS OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS	GTS OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
<b>Asparagus</b>	Asparagus beetle, caterpillars, Apache beetle	1 to 2	Repeat applications as necessary up to a total of 3 times prior to harvest or a total of 6 times per crop but not more often than once every 7 days.  For cutworm control, this product is most effective against species which feed on the upper portions of the plant.	1 to 1	Report applications as necessary up to a total of 4 times but not more often than once every 7 days.  For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
<b>Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Mustard, Mustard Greens</b>	Flea beetles, Harlequin bug, Leafhoppers, Armyworm, Aster Leafhopper, Corn earworm, Diamondback moth, Fall armyworm, Imported cotton bollworm, Lygus bugs, Spittlebug, Stink bugs, Tarnished plant bug	1 to 1 1 to 2	Repeat applications as needed up to a total of 6 times but not more often than once every 7 days.  Do not apply more than a total of 6 quarts per acre per crop.	1 to 1X 1X	Use lower rates for light to moderate populations and smaller insects and provide maximum survival of beneficial insects and spiders. Use the higher rates for heavy populations and larger insects.
<b>Carrots, Parsnips, Garden Beets, Horseradish, Potatoes, Rutabagas, Sweet Potatoes</b>	Flea beetles, Leafhoppers, Armyworm, Aster Leafhopper, Colorado potato beetle, Corn earworm, European corn borer, Fall armyworm, Lace bugs, Lygus bugs, Spittlebug, Stink bugs, Tarnished plant bug	1 to 1 1 to 2	Repeat applications as necessary up to a total of 8 times but not more often than once every 7 days.  For cutworm control, this product is most effective against species which feed on the upper portions of the plant.	1 to 1X 1X	Do not apply more than a total of 8 quarts per acre per crop.  For Chinese Cabbage, Collards, Kale, and Mustard Greens, do not apply within 14 days of harvest. For Broccoli, Brussels Sprouts, Cabbage, Cauliflower, and Kohlrabi, do not apply within 3 days of harvest.
<b>Cucumber, Melons, Pumpkins, Squash</b>	Flea beetles, Melonworm, Cucumber beetles, Flea beetles, Leafhoppers, Squash bugs	1 to 1 1	Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.  For optimum control of squash bugs, apply sufficient spray volume for thorough coverage and two sprays for early morning or late afternoon.	1 to 1X Up to 2	Do not apply more than a total of 6 quarts per acre per crop.  Do not apply more than a total of 8 quarts per acre per crop.  Do not apply within 7 days of harvest.
<b>Onions, Dicotyledons, Spinach, Lettuce (head and leaf), Peas, Spinach, Swiss Chard</b>	Flea beetles, Harlequin bug, Leafhoppers, Armyworm, Aster Leafhopper, Corn earworm, Fall armyworm, Imported cotton bollworm, Lygus bugs, Spittlebug, Stink bugs, Tarnished plant bug	1 to 1 1 to 2	Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.	1 to 2 1 to 2	Report applications as necessary up to a total of 7 times but not more often than once every 7 days.  Thorough coverage is essential to effectively suppress stink bugs.
<b>Do not apply more than a total of 6 quarts per acre per crop. Do not apply within 14 days of harvest.</b>					
<b>Field corn, Popcorn</b>	Armyworm, Corn rootworm adult, European corn borer, Fall armyworm, Flea beetles, Japanese beetles, Sod beetles, Southern corn borer, Leafhoppers	1 to 2	Report applications as necessary up to a total of 4 times but not more often than once every 14 days.	1 to 2	Optimum timing and good coverage are essential for effective control.
<b>European corn borer</b>	Caterpillars, Western bean cutworm	1 to 2	For optimum European corn borer control, do not apply in less than 3 gallons of water per acre by air and 16 gallons of water by ground.	2	For optimum Western bean borer control, treat when infestation averages 10% and at 50% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
<b>Cultivars</b>					For optimum cutworm control, apply in a 12-inch band, over the row.

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CROP	INSECT	GTS. OF THIS PRODUCT/ACRE	SPECIFIC DIRECTIONS	GTS. OF THIS PRODUCT/ACRE	SPECIFIC DIRECTIONS
Small fruits and berries, Ripe corn, Peppers, etc. 4-1			<ul style="list-style-type: none"> <li>Do not apply more than a total of 8 quarts per acre per crop.</li> <li>Do not apply within 48 days of harvest of grain and fodder or within 14 days of harvest or grazing of forage or silage.</li> </ul>		
Do not use in California.	Armyworm	1 to 1%	<p>Up to 2 applications per crop may be made but not more often than once in every 14 days.</p> <p>For cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p>		<ul style="list-style-type: none"> <li>Do not apply more than a total of 10 quarts per acre per crop.</li> <li>CAUTION: Use in California may kill shrimp and crabs. Do not use in areas where these are important resources.</li> <li>Cararyl may injure Early Dawn and Sunburst varieties of strawberries.</li> <li>Do not apply within 7 days of harvest.</li> </ul>
Green sorghums	Armyworm, Cotton boll bugs, Corn earworm, Fall armyworm, Striped bugs, Webworms	1 to 2	<p>Repeat applications as necessary up to a total of 4 times but not more often than once every 7 days.</p> <p>Direct spray into feeding heads for optimum control of insects attacking heads.</p>		<p>For cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p>
Southwestern corn borer		1%			
Cultivars		2	<p>For optimum chinch bug control, use high gallonage ground application at the base of plants.</p> <p>For cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p>		<ul style="list-style-type: none"> <li>Do not apply more than a total of 3 quarts per acre per crop.</li> <li>Do not apply within 21 days of harvest for grain or fodder or within 14 days of harvest or grazing of forage or silage.</li> </ul>
Pearls	Motley beetles, Mexican bean beetle	1/2 to 1	<p>Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.</p>		<ul style="list-style-type: none"> <li>Up to 2 applications may be made but not more often than once every 7 days.</li> </ul>
Allotella caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworm, Japanese beetles, Leafhoppers, Pod-necked peanut worm, Three-cornered alfalfa hopper, Thrips, Velvet bean caterpillar	1		<p>For optimum control of thrips, use directed or banded spray with hollow cone spray nozzles. Ensure adequate coverage for the underside of leaves.</p>		<p>For cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p>
Armyworm, Corn earworm, Fall armyworm, Striped bugs, Webworms	1 to 1%		<p>Per cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p>		<ul style="list-style-type: none"> <li>Do not apply more than a total of 3 quarts per acre per crop.</li> <li>Do not apply within 30 days of sprouting of harvested forages or within 21 days of harvest for grain.</li> </ul>
Whitefringed beetles adult, Cutworms	2				<p>Optimum timing and good coverage are essential for effective control.</p>
Do not apply more than a total of 8 quarts per acre per crop.					
Observe plant response precautions.					
Do not apply within 14 days of harvest.					
Rice	Armyworm, Cotton boll bugs, Fall armyworm, Striped bugs, Webworms	1 to 1%	<p>Up to 2 applications per crop may be made but not more often than once every 7 days.</p>		<p>For rice, do not apply more than 10 quarts per acre per crop.</p>
Tadpole shrimp	1%		<p>California only:</p> <p>For optimum tadpole shrimp control, apply to water when past first emergence.</p>		<p>Optimum timing and good coverage are essential for effective control.</p>
Do not apply more than a total of 4 quarts per acre per crop.					
CAUTION: May kill shrimp, crabs and oysters.					
Do not apply preplant herbicides within 15 days before or after application of this product or plant injury will result.					
Do not apply within 14 days of harvest for grain or fodder.					
Small fruits and berries, Cucumber, Blackberries, Cherries, Grapes, Strawberries	European fruit borer, European raspberry split, Flea beetles, Grape leaf roller, Japanese beetles, Leafhoppers, Leafrollers, Mexican potato beetle, Onionworm, Rose chafers, Strawberry tree cricket, Strawberry budworm, Strawberry clipper, Strawberry fruitworm, Strawberry instigator, Strawberry weevil, Western grape leaf skeletonizer, Western yellowstriped armyworm	1 to 2	<p>CAUTION: SEE CAUTION</p> <p>Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.</p> <p>For cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p> <p>In grapes for grape instigator control, apply before first brood larvae emerge from rolls.</p> <p>In grapes, do not concentrate spray on the bunch or visible residues may result.</p>		<p>For optimum cutworm control, use a total of 10 quarts per acre per crop.</p> <p>For optimum European fruit borer control, do not apply in less than 3 gallons of water per acre by air and 10 gallons of water by ground.</p> <p>For western grape cluster, treat when infestation exceeds 25% and at 20% to 25% initial infestation. Treatment after 20% to 25% emergence will reduce effectiveness.</p> <p>For optimum cutworm control, apply in a 10-foot band, over the row, using sufficient volume of water to obtain thorough coverage.</p> <p>For broadleaf application, use at least 20 gallons by ground or 8 gallons by air per acre.</p> <p>For cutworm control, this product is most effective against species which feed on the upper portions of the plant.</p>
Blueberry maggot, Cherry fruitworm, Cranberry larva	1% to 2				
Sheet positions					
Corn earworm, Cucumber beetles, Flea beetles, Sweet potato hornworm, Sweet potato weevils, Whitefringed beetles, Tomato hornworm	1 to 2		<p>Preplant dip to control of sweet potato weevils. Just prior to planting, dip treated potato cuttings in a suspension containing 2 gallons of this product in 100 gallons of water (2.0 bushels excess per gallon of water).</p>		<p>For foliar spray, repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.</p>
Yellowstriped armyworm	2				<p>For foliar spray, repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.</p>
Do not apply more than a total of 8 quarts per acre per crop with in-season spray.					
Do not apply more than a total of 1.2 quarts per acre as a preplant dip treatment.					
Do not apply within 7 days of harvest.					

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CROP	INSECT	GTS. OF THIS PRODUCT	SPECIFIC DIRECTIONS	GTS. OF THIS PRODUCT	SPECIFIC DIRECTIONS
	Colorado, Fall armyworm, Tobacco flea beetles, Hornworms, Japanese beetles, June beetles, Soddy	1 to 2	<b>GENERAL DIRECTIONS:</b> Fall army and Fall beetles  Repeat treatments as necessary up to a total of 4 times per crop but not more often than once every 7 days.  Use lower rate on young plants (up to three hatching). Use at least 10 gallons of prepared spray per acre. Begin treatments when insects are small.	<b>Apple, Pear, Loquat, Citrusquat, Citrusquat plus</b> 1 to 4	Pear and nectarines, Potentilla disease, Plum curculio, Red-headed bumblebee, Rose apple aphid, Scale insects (Fruitless scales, Lecanium scale, San Jose scale), Tarnished plant bug, Tortoise beetle, Woolly apple aphid, Yellow-headed leafhopper
					<ul style="list-style-type: none"> <li>- Do not use on peaches between the light flower cluster up to the 20 mm fruit size.</li> <li>- Do not use on quince.</li> <li>- Do not apply more than a total of 16 quarts per acre per crop.</li> <li>- Do not make more than a total of 6 applications per crop.</li> <li>- Do not apply within 3 days of harvest.</li> </ul>
Wheat, Presto Miller	Corn borer, Cereal leaf beetle	1 to 1	Up to 2 applications per crop may be made but not more often than once every 14 days.	<b>Apricot, Cherry, Nectarine, Peach, Plum, and Prunes</b> 2 to 3	<b>OBSERVE BEE CAUTION</b>  Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 7 days. An additional application at the dormant or delayed dormant timing may be made.
Do not use in California	Armyworm, Fall armyworm	1 to 15	Application is effective against eggs, larvae, and adults of the cereal leaf beetle.  Application for armyworm control should be made when armyworms are actively feeding on the upper foliage and night temperatures are not expected to drop below 50°F. If applying by air to field crops, use a minimum spray volume of 6 gallons per acre to insure coverage.		For optimum scale control, apply when crawlers are present.
					For better peachtree bloom, best results have been found by thoroughly spraying blossoms and tree trunks at weekly intervals during moth flight.
			<ul style="list-style-type: none"> <li>- Do not apply more than a total of 3 quarts per acre per crop.</li> <li>- Do not apply within 21 days of harvest for grain or straw or within 7 days of harvest or greening of leaves.</li> </ul>		

### TREE FRUIT AND NUT CROPS

For all tree fruit and nut crops, apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree condition, size, density, and other factors.

CROP	GTS. OF THIS PRODUCT	SPECIFIC DIRECTIONS	GTS. OF THIS PRODUCT	SPECIFIC DIRECTIONS
APPLES ONLY	1 to 3			
For Full Thinning		<b>GENERAL DIRECTIONS:</b>  Apply 1 to 3 quarts per acre. Use higher rates on difficult to thin varieties and lower rates on easy to thin varieties.	<b>Apple</b> 2 to 3	<b>OBSERVE BEE CAUTION</b>  Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 14 days. An additional application at the dormant or delayed dormant timing may be made.
		Apply to apples between 50% petal fall and up to 90% fruit size. Use sufficient water volume to ensure thorough coverage. Avoid spraying to runoff. Direct spray volume to upper 1/3 of tree canopy and reduce spray coverage to lower 1/3 of tree canopy or possible over-draining may occur. Tree age, variety, nutrition, previous crop, pruning, bloom, and degree of set influence fruit thinning results. Exercise caution to avoid possible over thinning. Avoid application when temperatures exceed 80°F. Consult with your County Extension Service or other experts for further information if desired.	<b>Black cherry, Cherry, European cherry, Gypsy moth, Leafhopper, Red-headed bumblebee, Rose beetle, Scale insects (Brown soft scale, Parthenocissus scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale), Tarnished plant bug, Tortoise beetle, Woolly aphid</b> California only: Black cherry aphid, Cherry blossom, Cherry maggot (Cherry fruit fly), Cicada moth, Cucumber beetle, European leaf moth, Northern cherry, Pacific leafroller, Green buckeye, Monilia plum aphid, Orange tortrix, Oriental fruit moth, Peach leaf curl, Scale insects (Green soft scale, Parthenocissus scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale), Tarnished plant bug, Tortoise beetle,	3 to 4
		<ul style="list-style-type: none"> <li>- Do not apply more than a total of 15 quarts per acre per crop.</li> <li>- Do not make more than a total of 8 applications per crop.</li> <li>- Do not apply within 3 days of harvest.</li> </ul>		For optimum scale control, apply when crawlers are present.
		<small>Notes: This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming trees or weeds if bees are visiting the treatment area. Applications must be timed to coincide with periods of minimum bee activity, including late evening and night. If weeds (particularly dicotyledons) are in bloom, spray the cover crop on the orchard floor and borders prior to the application to reduce weed blooms and reduce bee foraging. Remove all bee traps from the orchard area to be treated prior to the application. Highly backspray and surrounding orchards after planned applications 24-48 hours in advance.</small>		
		<small>Directions on the orchard floor are a main element to bees during and shortly after the apple flowering period. To control dicotyledons and other broadleaf weeds, apply a labeled 2,4-D in the fall after apple harvest or in the spring prior to bloom. Refer to restrictions pertaining to 2,4-D applications.</small>		

CROP	INSECT	GTS. OF THIS PRODUCT	SPECIFIC DIRECTIONS	GTS. OF THIS PRODUCT	SPECIFIC DIRECTIONS
Apple, Pear, Loquat, Citrusquat, Citrusquat plus	White apple budhopper	1% to 10	<b>GENERAL BEE CAUTION</b>  On apples, avoid use during the period from full bloom until 30 days after full bloom unless thinning is required. Use for pest control during this period since may result in fruit removal.	<b>Antenna beetle, California orange, Citrus curacao, Fruit tree borer, Orange Tortrix, Western tent caterpillar</b> 2 to 3	Repeat applications as necessary up to a total of 8 times per crop (including thinning sprays on apples) but not more often than once every 14 days.
	Apple aphid, Cicada moth	1 to 3	Repeat applications as necessary up to a total of 8 times per crop (including thinning sprays on apples) but not more often than once every 14 days.	<b>Citrus root aphid</b> 3 to 5	For scale control, apply when crawlers are present.
	Apple aphid, Apple maggot, Apple mealy bug, Apple root aphid, Bagworm, California peacock (greenfly), European apple maggot, European red mite, European leaf roller, Flea beetle, Japanese beetle, Lesser aphid, Lygus bugs, Orange tortrix, Pacific mole cricket, Pear psylla,	1% to 3	For psylla control, apply when eggs hatch or young nymphs are present.		For best control of European red mites including citrus root aphid, apply when pest populations are low.
			For scale control, apply when crawlers are present.		

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CROP Circles Pesticides etc.)	INSECT (adult), Fuller Rose Beetle, Little leaf roller (adult)	GTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
	California only: California red scale, Yellow scale	5 to 10	Do not make more than 1 application per season for California red scale. Apply when crawlers are present.
			<ul style="list-style-type: none"> <li>Do not apply more than a total of 20 quarts per acre per crop.</li> <li>Do not apply within 5 days of harvest.</li> </ul>
Peaches	Brown soft scale Lecanium scale Navel orangeworm	3 to 6	<p>Repeat applications as necessary up to a total of 4 times per crop (including any applications at the dormant or delayed dormant timing) but not more often than once every 7 days.</p> <p>For scale control, apply when crawlers are present.</p>
	Scale insects	4 to 6	<p>For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.</p>
			<ul style="list-style-type: none"> <li>Do not apply more than a total of 15 quarts per acre per crop, including any application at the dormant or delayed dormant timing.</li> <li>Do not apply within 14 days of harvest.</li> </ul>
Almonds, Cherries, Pears, Peaches, Walnuts	Adult emerald spangle, Cotton stainer, Codling moth, European fruit borer, Fall webworm, Fruit aphid, Pierrot looper, Pitahaya, Prickly pear, Honey locust, Leaves webworm, Navel orangeworm, Peach twig borer, Peach leaf curl, Pecon red phytolaccae, Pecon red aphid, Pecon aphid, Pecon web, San Jose scale, Twig girdler, Walnut caterpillar	2 to 6	<p>REATIVE BEE CAUTION</p> <p>Repeat applications as necessary up to a total of 4 times per crop (including any applications at the dormant or delayed dormant timing) but not more often than once every 7 days.</p> <p>Use lower rates for pests attacking leaves. Use higher rates for pests attacking fruit and for higher infestations.</p> <p>For scale control, apply when crawlers are present.</p> <p>For peach twig borer, best results with foliar applications have been found by making applications in "popcorn" or petal fall stages when the May brood begins to hatch.</p> <p>For navel orangeworm in almonds and walnuts, best results have been found by timing early and additional applications to correspond with adult flight peaks.</p> <p>For peach leaf curl, best results have been found by making applica- tions when leaves are breaking. Repeating application on first appearance of mottle and again 3 to 4 weeks later.</p> <p>For codling moth in walnuts, best results have been found by making applications when average cross- sectional diameters of developing nuts are 0.5 to 0.75 inches and again during mid-June or later June as needed.</p>
	Chestnut weevil, European cornwig	4 to 6	<p>For chestnut weevil, best results have been found with 4 applications at weekly intervals beginning in late July. The last application should be made prior to shock split.</p> <p>For European cornwig, thorough coverage of twigs, branches, and leaves is required for best results.</p> <p>For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.</p>
Almonds only	Peach twig borer, Scale insects	4 to 6	<ul style="list-style-type: none"> <li>Do not apply more than a total of 15 quarts per acre per crop, including any application at the dormant or delayed dormant timing.</li> <li>Do not apply within 14 days of harvest.</li> </ul>

**FORAGE CROPS**

CROP	INSECT	GTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS CAUTIONS SEE CAUTION
Astrots, Clover, Burdock, beetles	Black bean beetle, Mexican bean beetle	5 to 1	Observe plant response procedures.
	Adult caterpillar, Green leaf beetle, Cucumber beetle, Green cloverworm, Japanese beetle, Leafhoppers, Three cornered alfalfa hopper, Thrip, Velvet bean caterpillar	1	On dense growth, use 25 to 40 gallons of water per acre with ground equipment to ensure adequate coverage.
	Adult weevil larvae, Armyworm, Clover head weevil, Corn earworm, Egyptian adult weevil larvae, Eaton skipper, European adult beetle, Fall army worm, Yellow striped armyworm	1 to 15	For adult weevil larvae, if prevent- ative damage is extensive, eat adults and treat the plants. This product is not effective against adult adult weevils.
	Adult weevil larvae (west of the Rocky Mountains)	1 to 15	For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
	Adult weevil larvae (east of the Rocky Mountains)	15	

	<ul style="list-style-type: none"> <li>Do not apply more than once per cutting.</li> <li>Do not exceed 15 quarts per acre per cutting.</li> <li>Caterpillars may cause a temporary blanching of tender alfalfa foliage.</li> <li>Do not apply within 7 days of harvest or storage.</li> </ul>		
Pasture, Grasses Grown for Seed	Armyworm, Clover buds, Boxelder bug, Fall armyworm, Striped cane borer, Tarnish, Mango caterpillar, Mango curculio, Thrip	1 to 15	Up to 2 applications per year may be made but not more often than once every 14 days.
			To control thrips in pasture grown for seed use high spray pressure to improve penetration into host.
			Carefully mark treated to avoid over- application.
	<ul style="list-style-type: none"> <li>Do not exceed a total of 3 quarts per acre per year.</li> <li>Do not apply within 14 days of harvest or storage.</li> </ul>		
Rangeland	Black grasshopper, Grasshopper, Mormon cricket, Range caterpillar, Range crane fly	5 to 1	Do not make more than 1 application per year.
	Ticks	1	Carefully mark treated to avoid over- application.
	<ul style="list-style-type: none"> <li>Do not apply more than 1 quart per acre per year.</li> <li>May be increased or repeated the same day as treatment.</li> </ul>		

**NONCROPLAND**

CROP	INSECT	GTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS UP TO 2 APPLICATIONS PER YEAR MAY BE MADE BUT NOT MORE THAN ONCE EVERY 14 DAYS.
Conservation Reserve Program, Agri-range Reserve Program, Agri-age Wetland, Right-of-Way, Hedgerows, Other agricultural	Black grasshopper	5 to 15	
	Mormon cricket, Range caterpillar, Range crane fly	5 to 1	Carefully mark treated to avoid over- application.
	Ticks	1 to 15	
			<ul style="list-style-type: none"> <li>Do not apply more than a total of 3 quarts per acre per year.</li> <li>Do not apply within 14 days of grazing or harvest for forage or hay.</li> </ul>

**GRASSHOPPER CONTROL**

CROP	INSECT	GTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
All crops on this label	Grasshopper	5 to 15*	<p>Apply 5 to 15 quarts per acre of this product for nymphs on cool days or sparse vegetation. Apply 1 to 15 quarts per acre for dense grasshopper or applications to dense foliage or if extensive residual control is desired. Be certain spray volumes are appropriate to ensure adequate coverage.</p>

Note: Refer to individual site listings elsewhere on this label for use limitations and restrictions.  
Do not use rates higher than listed for the site or exceed other use restrictions.

**TREES AND ORNAMENTALS**

For dilute-spray ground applications to trees (including shade trees, shelter belts, non-urban forests, tree plantations, Christmas trees, rangeland trees, parks and recreation areas, rural shelter belts), ornamentals, woody plants and shrubs, apply in the specified dosage per 100 gallons of water. For concentrate spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and recreation areas) and

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commercially grown ornamentals, woody plants and shrubs apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds. Do not make more than 6 foliar and 2 direct trunk applications per year.

AMOUNT OF THIS PRODUCT TO SPRAY/		DIRECTIONS	
PRODUCT	1 GALLON, 100 GALLONS	1 oz.	1 qt.
Ants, Apple aphid, Armyworm, Asian leafroller, Bagworm, Birch borer, Boxelder beetle, Bumble bee, Bumblebee, Brown tail moth, Caterpillars, Cattail aphids, Chiggers, Codley spruce gall aphid, Cutworm, Cypress tip moth, Douglas fir tussock moth, Eastern spruce gall aphid, Elm leaf aphid, Elm leaf beetle, Elm span- worm, Ericophyid mites, European pine shothorn moth, Fall armyworm, Flea beetles, Fisher rose beetle, Gall midges, Gulf wasps, Green striped meadowlark, Greenhoppers, Gypsy moth, Hickory hoppered weevil, Holly leaf moth, Holly leafroller, Japanese beetles, Japanese beetle, Jeffrey pine needleborer, June beetles, Lace bugs, Leaf hoppers, Leaf- rollers, Leaf roller, Maple leafroller, Mantid bugs, Mimosa webworm, Monotocid pine tip moth, Oak leafroller, Oak leaf shothorn, Oakmeal, Oleander caterpillar, Olive ash borer, Orange-striped caterpillar, Orange tortrix, Portulaca blight, Pine sawfly, Pine spittlebug, Pitch pine tip moth, Plant bugs, Poinsettia horn worm, Phytoe, Pine engraver, Red hammed oak worm, Rose aphid, Rose scale, Rusticate, Scentless plantainlily, Shrub borers, Snowberry, Snow bugs, Spiny oak engraver, Spruce adelgid, Spruce balsam, Spruce needleminer, Sub- capital pine tip moth, Tarn caterpillar, Thrip, Thrip (greenish), Thrip, Western caterpillar, Western corn borer, Western leaf hopper, Western spruce budworm, Willow leaf beetle, Yellow spider mites	Use sufficient spray volume to obtain thorough coverage of upper and lower leaf surfaces. To control scale insects, treat twigs, stems, and twigs in addition to plant foliage.		
	For optimum worm control, treat when in early instars. Addition of a sticker may improve residual control.		
	Observe plant response precautions.		
	Applications for control of Maple leafroller on sugar maple should be made when larvae are in 2nd instar after mining, and as cases are being formed.		
	Repeat treatments as necessary up to a total of 2 times per year but not more often than once every 7 days.		

- Do not spray more than 2 applications per year.
- DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYER NAME DRYED.

## **LAWNS AND RECREATIONAL AREAS**

**HALT MOSQUITO CONTROL.**

- Do not allow public use of treated areas during application or until spray has dried.
- Minimize children and pets. Do not use in areas where there are innocent non-target species.

**• After all, it's been said before. The first rule is always listen. Listen, and then respond.**

## **PEST CONTROL IN AND AROUND BUILDINGS**

## **GENERAL INFORMATION**

**Note:** Staining may occur on certain surfaces such as stucco, brick, cinder block and wood. Therefore, application of this product to surfaces where a noticeable residue or discoloration is objectionable should be avoided. Do not apply to carpets or draperies as staining may occur. Care should also be exercised to avoid spotting of wallpaper and fabrics. Do not use this product in commercial food areas or food handling establishments, restaurants or other places where food is prepared or processed.

**Do not use in serving areas while food is exposed.**

**INDOORS NOT REGISTERED FOR INDOOR USE IN NEW YORK STATE**

**Anti-Gecko® Concentrate Instructions:** Mix 3 oz. this product per gallon of water and apply as fine, low pressure (20 psi) mist spray or crack and crevice application to areas where these pests hide, such as beneath stones, storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, ovens, sinks, stoves, dishwashers, hot water tanks, the undersides of shelves, dressers and similar areas. For ants, apply to ant trails, around doors and windows and other places where ants enter premises.

**Bees and Wasps:** Mix 3 oz. this product per gallon of water and thoroughly spray nest and entrance and surrounding areas where insects alight. It is generally advisable to spray the nests in the evening when the insects are less active and have returned to the nest. For best results, check nest carefully one or two days after spraying to ensure complete kill, then remove and destroy nest to prevent emergence of newly hatched insects.

**Sussex, Delt. Ticks and Fleas.** Mix 3 oz. this product per gallon of water and thoroughly spray infested areas such as pet beds and resting quarters, nearby cracks and crevices, between and under cushions and upholstered furniture, along and behind baseboards, window and door frames and other areas where these pests may be present.

**Caution:** Avoid mix 3 oz. this product per gallon of water and apply to cut stumps, around doors and windows and other places where ants enter premises. Where possible, apply this product directly to ant nest or infested trees.

**Control of cockroaches around buildings:** Mix 3 oz. this product per gallon of water and apply around water pipes, doors and windows, and other places where these pests may enter premises. Spray baseboards, storage areas, garages, garrets, barnments and other areas, where these pests are found.

**Sacculinates:** Efficacy varies with species sensitivity. This product is generally not highly effective in controlling *Ceratitis capitata*. However, the following may be controlled with the rates as stated: American cockroach, Australian cockroach, Brown cockroach, Smoky brown cockroach, and others. Mix 3 oz. this product per gallon of water and apply as a fine, low pressure (20 psi) spot spray or as crack-and-crevice application to areas where these pests hide, such as baseboards, corners, areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the undersides of pictures, fixtures and similar areas.

outcomes

**Chitosan Treatment.** Residual spray for control of ants, bees and wasps, house-dog ticks, carpenter ants, centipedes, centrobaeches, crickets, earwigs, firebrats and silverfish, fleas, millipedes, scorpions and spider. Mix 16 oz. this product per 50 gallons of water (2 fl. oz. per 3 gallons), and apply via power spray or other spraying methods. To help prevent invasions of buildings by the above pests, residual perimeter treatment should be in a band 6 to 10 feet wide and confined to shrub beds, foundation plantings and lawn or soil areas immediately adjacent to the structure. Direct application to structures should be minimal and restricted to cracks and crevices and other areas where insects tend to congregate.

**Immersed Flea Areas:** Mix 1% parts of this product per 50 gallons of water (X 2. oz. per gallon). Apply a total of 2 gallons of the diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a knapsack, can or other appropriate equipment. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about three feet to give sufficient force to break mound apex and allow flow into ant tunnels. For best results apply in cool weather, 65-80°F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb tunnels and cause migration, reducing product effectiveness.

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**NOTICE**

IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE, THE MANUFACTURER OR SELLER. IN NO CASE SHALL PLATTE, THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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