



PAUL R. LePAGE
GOVERNOR

STATE OF MAINE
DEPARTMENT OF AGRICULTURE, FOOD AND RURAL RESOURCES
BOARD OF PESTICIDES CONTROL
28 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0028

WALTER WHITCOMB
COMMISSIONER
HENRY S. JENNINGS
DIRECTOR

To: Board of Pesticides Control Members
From: Mary Tomlinson, Pesticides Registrar
Re: EPA Special Local Need (SLN) [FIFRA, Section 24(c)] application to approve the use of Diazinon AG600 WBC Insecticide (EPA Reg. No. 66222-103-34704) for control of aphids and balsam gall midge on balsam fir trees grown outdoors in nurseries
Date: May 23, 2011

Enclosed is the SLN application and supporting documents for the use of Diazinon AG600 WBC Insecticide (EPA Reg. No. 66222-103-34704) for insect control on balsam fir trees grown outdoors in nurseries. Diazinon has been used effectively on balsam fir in Maine for over 30 years now. A recent change in the base label for diazinon and a different interpretation of the label by EPA necessitate this SLN request until revisions to the FIFRA Section 3 label can be completed. Although the recent version of Section 3 label permits use on a variety of ornamental trees grown in nurseries, including Douglas fir, balsam fir trees are not included.

According to David Struble of the Maine Forest Service, balsam firs are experiencing increasing pressure from the balsam gall midge which has the potential to adversely impact the salability of the trees and wreath brush. The Maine Forest Service has demonstrated that Diazinon AG600 WBC is effective and the risk of new fir foliage to phytotoxicity is greatly reduced.

Your package includes the additional documents listed below for your review:

- Cover letter from Christine Coon, Loveland Products, Inc.
- Letter of permission from Ann Stout, Makhteshim-Agan, for the SLN application by Loveland Products, Inc.
- Support letter from Dave Struble, Maine Forest Service
- Support letter from Clark Granger, Grower
- Hicks Memo to Board on Risks from Proposed Use of Diazinon AG600 WBC Insecticide
- *40 CFR 156 Sections 62 and 64*
- Proposed SLN supplemental label for this use
- State product Section 3 label and MSDS for Diazinon AG600 WBC Insecticide

Please review these materials and let me know if you have any questions.

United States Environmental Protection Agency
Office of Pesticide Programs, Registration Division (7505C)
Washington, DC 20460



**Application for/Notification of State Registration
of a Pesticide To Meet a Special Local Need**
*(Pursuant to section 24(c) of the Federal Insecticide,
Fungicide, and Rodenticide Act, as Amended)*

For State Use Only
Registration No. Assigned
Date Registration Issued

1. Name and Address of Applicant for Registration
Loveland Products, Inc.
PO Box 1286
Greeley, CO 80632-1286

2. Product is (Check one)
 EPA-Registered
 New (not EPA-registered)
Attach EPA Form 8570-4, Confidential Statement of Formule for new products.

EPA Registration Number
66222-103-34704

EPA Company Number
34704

3. Active Ingredient(s) in Product
Diazinon

4. Product Name
Diazinon AG600 WBC

5. If this is a food/feed use, a tolerance or other residue clearance is required. Cite appropriate regulations in 40 CFR Part 180, 185, and/or 186.

6. Type of Registration (Give details in Item 13 or on a separate page, properly identified and attached to this form):

a. To permit use of a new product.

b. To amend EPA registrations for one or more of the following purposes:

(1) To permit use on additional crops or animals.

(2) To permit use at additional sites.

(3) To permit use against additional pests.

(4) To permit use of additional application techniques or equipment.

(5) To permit use at different application rates.

(6) Other (specify below)

7. Nature of Special Local Need (check one)

There is no pesticide product registered by EPA for such use.

There is no EPA-registered pesticide product which, under the conditions of use within the State, would be as safe and/or as efficacious for such use within the terms and conditions of EPA registration.

An appropriate EPA-registered pesticide product is not available.

10. Has FIFRA section 24(c) registration for this use of the product ever, by another State, been (check appropriate box(es), if known):

Sought Issued Denied Revoked

If any of the above are checked, list States in Item 13 below.

No FIFRA section 24(c) Action

8. If this registration is an amendment to an EPA-registered product, is it for a "new use" as defined in 40 CFR 152.3 ?

Yes (discuss in Item 13 below) No

9. Has an EPA Registration or Experimental Use Permit for this chemical ever been (check applicable box(es), if known):

Sought Issued Denied Cancelled Suspended

Registration Experimental Use Permit No Previous Permit Action

11. Endangered Species Act: (Give details in Item 13 or on a separate page, properly identified and attached to this form)

Identify the counties where this pesticide will be used. If Statewide, indicate "all."
Provide a list of Federally protected endangered/threatened species which occur in the areas of proposed use.

Certification
I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

12. Indicate use status of Special Local Need, i.e., planned dates of use:
From: mm/dd/yyyy To: mm/dd/yyyy

Signature of Applicant or Authorized Representative

13. Comments (attach additional sheet, if needed)

Title
Registration Manager

Telephone Number
970-685-3579

Date
May 18, 2011

Determination by State Agency

This registration is for a Special Local Need and is being issued in accordance with section 24(c) of FIFRA, as amended. To the best of our knowledge, the information above is correct, except as noted in "Comments" below or in attachments.

Name, Title, and Address of State Agency Official
Mary E. Tomlinson
Maine Board of Pesticides Control
Maine Department of Agriculture
28 State House Station
Augusta, ME 04333-0028

Comments (by State Agency Only)

Received by EPA

Title
Pesticides Registrar/Water Quality Specialist

Telephone Number
207-287-7544

Date
May 24, 2011



May 18, 2011

Mary E. Tomlinson
Pesticide Registrar/Water Quality Specialist
Maine Board of Pesticides Control
28 State House Station
Augusta, ME 04333

Subject: EPA Reg No 66222-103-34704 – Diazinon AG600 WBC Insecticide

Dear Ms. Tomlinson:

Please consider this letter as Loveland Products, Inc.'s application for a 24c for Diazinon AG600 WBC Insecticide EPA Reg. No. 66222-103-34704 for the control of Aphids and Gall Midge on Balsam Fir Trees. Loveland is submitting this application per your request for the Christmas tree growers in Maine.

Please find enclosed:
24c label
EPA form 8570-25

Loveland Products, Inc. and Maine Christmas Tree Growers request approval of this request as soon as possible. Thanks so much for your cooperation. Should you have any questions, or need anything else, please contact me at 970-685-3285 or email me at chris.coon@cpsagu.com.

Sincerely,

A handwritten signature in blue ink that reads "Christine Coon".

Christine Coon
State Registration Manager
Loveland Products, Inc.
PO Box 1286
Greeley CO 80632
Phone: 970-685-3285
Chris.coon@cpsagu.com

Tomlinson, Mary E

From: Annie Stout <annies@manainc.com>
Sent: Wednesday, May 18, 2011 4:13 PM
To: Tomlinson, Mary E
Cc: Elena Ross
Subject: FW: Diazinon AG600 WBC

Hi Mary:

We have no objection to the state of Maine allowing an SLN to get registered for Loveland with the subregistered Diazinon AG600 WBC, EPA Reg. No. 66222-103.

It was great speaking with you today.

Anne Stout

Ph: 901-861-4400

Fax: 901-861-4492

annies@manainc.com<<mailto:annies@manainc.com>>

We make a living by what we get, but we make a life by what we give. --Winston Churchill



PAUL R. LEPAGE
GOVERNOR

STATE OF MAINE
DEPARTMENT OF CONSERVATION
22 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0022

WILLIAM H. BEARDSLEY
COMMISSIONER

May 17, 2011

Mary E. Tomlinson
Pesticide Registrar/Water Quality Specialist
Maine Board of Pesticides Control
28 State House Station
Augusta, ME 04333

Re: SLN for use of Diazinon AG 600 on balsam fir

Ms Tomlinson:

I am contacting you in my official capacity as Maine's State Entomologist to request that Maine Board of Pesticides Control take necessary steps to obtain an SLN for the Diazinon AG 600 label to include application on balsam fir nursery stock and Christmas trees under the "*Ornamentals Grown Outdoors in Nurseries Crop*" category.

Although this material is efficacious for a number of serious pests on fir, the particular concern at the current time is focused on balsam gall midge, *Paradiplosis tumifex*. The Maine Forest Service's inspections and surveys indicate that balsam gall midge populations are at moderate to high levels - especially in Downeast Maine. Gall midge at these levels has high potential to cause significant crop damage, requiring treatment to assure salable crops of balsam fir Christmas trees and wreath brush. Diazinon AG 600 has been proven effective and is less apt to be phytotoxic to expanding fir foliage than some other registered products.

We need to have the requested Diazinon AG 600 SLN so that we can be assured that a proven safe, effective and cost efficient treatment is available to Maine growers for this field season.

Maine Forest Service staff were involved in the earlier work demonstrating the efficacy of Diazinon against this and other pests and can attest to its efficacy on this host. Balsam fir was formerly included as a host site on Diazinon labels; this action simply reinstates fir as a registered host site.

Thank you for your consideration.

Sincerely

A handwritten signature in black ink, appearing to read "Dave Struble", with a long horizontal flourish extending to the right.

Dave Struble
State Entomologist
Maine Forest Service

MAINE FOREST SERVICE
DOUG DENICO, DIRECTOR

PHONE: (207) 287-2791 OR 1-800-367-0223
FAX: (207) 287-8422
www.maineforestservice.gov

We help you make informed decisions about Maine's forests

Tomlinson, Mary E

From: Clark Granger <clarkgranger@gwi.net>
Sent: Monday, May 16, 2011 7:46 PM
To: Tomlinson, Mary E
Cc: Jennings, Henry; Struble, Dave
Subject: 24(C) Special Local Needs Application for Diazinon AG 600

Dear Mary,

I am writing to request and support a special local needs registration for Diazinon AG 600 for application to balsam fir Christmas trees and wreath brush. The outbreak in recent years of balsam gall midge has not subsided in certain parts of Maine and it is anticipated that control will be required early next month, particularly in Eastern Maine.

The insecticide of choice for managing this pest is Diazinon AG 600. While several formulations of diazinon and chlorpyrifos will control gall midge, AG 600 commonly provides superior efficacy, bonding well to the newly expanding foliage without causing phytotoxicity. Other attributes of Diazinon AG 600 include its water based formulation, its low odor characteristics, and its safety for use with air carrier equipment which is apt to exacerbate phytotoxicity problems due to the high velocity of mist droplets applied at a growth stage when balsam fir foliage is unusually tender.

Thank you for your consideration. I will plan to be at the Board of Pesticides Control meeting in Fairfield on June 3rd to respond to any questions or concerns the Board may have.

Clark Granger



STATE OF MAINE
DEPARTMENT OF AGRICULTURE, FOOD AND RURAL RESOURCES
BOARD OF PESTICIDES CONTROL
28 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0028

WALTER E. WHITCOMB
COMMISSIONER
HENRY S. JENNINGS
DIRECTOR

TO: Board Members
FROM: Lebel Hicks PhD DABT
RE: Risks from Proposed Use of Diazinon AG600 WBC Insecticide on Balsam Fir

May 26, 2011

The pending 24(c) for the use of Diazinon AG600 WBC Insecticide (EPA# 66222-103-34704) on balsam fir in Maine has the same use rates (12.75 to 25.6 fl oz /100 gal) as existing uses on other ornamentals including Douglas fir, pine, Scotch pine, spruce, etc. This rate reflects EPA's risk mitigation steps recommended in the 2000 Human Health Effects Division's risk analysis and found in the 2006 Diazinon Registration Eligibility Decision.

In summary, diazinon is a non-systemic organophosphate insecticide in EPA's toxicity category III for oral, dermal, and inhalation routes of exposure and for skin and eye irritation—*see 40CFR 156, Sections 62 and 64*. Diazinon is not a sensitizer in the Guinea pig and is negative for organophosphate-induced delayed neuropathy in the hen. The Food Quality Protection Act Safety Factor has been reduced from 10X to 1X, indicating a lack of sensitivity in the developing fetus, and it is classified as "Not Likely" to be carcinogenic in humans by EPA (EPA 2006).

There is a two-day reentry period for use of the product on ornamental trees. EPA estimated that with a use rate of 3 lbs diazinon/acre, residue on tree foliage was below the limit of quantitation (0.004 ug/cm²) three weeks following application (EPA 2000). The proposed 24(c) has use rates of 1–2 lbs/acre, depending on the pest. The margins of exposures (MOE—ratio of the No Observable Adverse Effect Level [NOAEL] from the rat study to the expected exposure dose) with an estimate of 8 hours of exposure to foliage for a 70 kg adult were 177 (2 lbs/acre) and 354 (1 lb/acre) at four weeks following application. EPA's acceptable risk level for the MOE for diazinon is greater than 100.

Addition of balsam fir to the list of ornamentals on the Diazinon AG600 label should not increase the risks over those already approved by EPA.

Glyphosate-Roundup Review Appendix A April 30, 2010

[Code of Federal Regulations]

[Title 40, Volume 20]

[Revised as of July 1, 2002]

From the U.S. Government Printing Office via GPO Access

[CITE: 40CFR156.62][Page 62]

TITLE 40--PROTECTION OF ENVIRONMENT

**CHAPTER I--ENVIRONMENTAL PROTECTION AGENCY (CONTINUED) PART
156--LABELING REQUIREMENTS FOR PESTICIDES AND DEVICES--**

Table of Contents Subpart D--Human Hazard and Precautionary Statements

Sec. 156.62 Toxicity Category.

This section establishes four Toxicity Categories for acute hazards of pesticide products, Category I being the highest toxicity category. Most human hazard, precautionary statements, and human personal protective equipment statements are based upon the Toxicity Category of the pesticide product as sold or distributed. In addition, toxicity categories may be used for regulatory purposes other than labeling, such as classification for restricted use and requirements for child-resistant packaging. In certain cases, statements based upon the Toxicity Category of the product as diluted for use are also permitted. A Toxicity Category is assigned for each of five types of acute exposure, as specified in the table in this paragraph.

Hazard indicators	Toxicity Categories			
	I	II	III	IV
Oral LD ₅₀	< 50 mg/kg	50 to 500 mg/kg	500 to 5,000 mg/kg	> 5,000 mg/kg
Inhalation LC ₅₀	< 0.2 mg/L	0.2 to 2 mg/L	2 to 20 mg/L	> 20 mg/L
Dermal LD ₅₀	< 200 mg/kg	200 to 2,000 mg/kg	2,000 to 20,000 mg/kg	> 20,000
Eye effects	Corrosive: corneal opacity not reversible within 7 days	Corneal opacity reversible within 7 days	No corneal opacity; irritation reversible within 7 days	No irritation
Skin effects	Corrosive	Severe irritation at 72 hrs	Moderate irritation at 72 hrs	Mild or slight irritation at 72 hrs

Glyphosate-Roundup Review Appendix A April 30, 2010

Subpart D--Human Hazard and Precautionary Statements

Sec. 156.64 Signal word.

(a) Requirement. Except as provided in paragraph (a)(4), each pesticide product must bear on the front panel a signal word, reflecting the highest Toxicity Category (Category I is the highest toxicity category) to which the product is assigned by any of the five routes of exposure in Sec. 156.62. The signal word must also appear together with the heading for the human precautionary statement section of the labeling (see Sec. 156.70).

(1) Toxicity Category I. Any pesticide product meeting the criteria of Toxicity Category I for any route of exposure must bear on the front panel the signal word "DANGER." In addition, if the product is assigned to Toxicity Category I on the basis of its oral, inhalation or dermal toxicity (as distinct from skin and eye irritation), the word "Poison" must appear in red on a background of distinctly contrasting color, and the skull and crossbones symbol must appear in immediate proximity to the word "Poison."

(2) Toxicity Category II. Any pesticide product meeting the criteria of Toxicity Category II as the highest category by any route of exposure must bear on the front panel the signal word "WARNING."

(3) Toxicity Category III. Any pesticide product meeting the criteria of Toxicity Category III as the highest category by any route of exposure must bear on the front panel the signal word "CAUTION."

(4) Toxicity Category IV. A pesticide product meeting the criteria of Toxicity Category IV by all routes of exposure is not required to bear a signal word. If a signal word is used, it must be "CAUTION."

(b) Use of signal words. In no case may a product:

(1) Bear a signal word reflecting a higher Toxicity Category than indicated by the route of exposure of highest toxicity, unless the Agency determines that such labeling is necessary to prevent unreasonable adverse effects on man or the environment;

(2) Bear a signal word reflecting a lesser Toxicity Category associated with a diluted product. Although precautionary statements for use dilutions may be included on label, the signal word must reflect the toxicity of the product as distributed or sold; or

(3) Bear different signal words on different parts of the label.

RESTRICTED USE PESTICIDE
 DUE TO AVIAN AND AQUATIC TOXICITY
 FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS, OR PERSONS UNDER THEIR
 DIRECT SUPERVISION, AND ONLY FOR THE USES COVERED BY THE CERTIFIED APPLICATOR'S
 CERTIFICATION.

SECTION 24[c] REGISTRATION

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF MAINE

DIAZINON AG600 WBC Insecticide

EPA Reg. No. 66222-103-34704

EPA SLN No. ME-XXXXXX

DIRECTIONS FOR USE

- IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.
- THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION.
- FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS, WORKER PROTECTION STANDARD REQUIREMENTS, AND PRECAUTIONS ON THE EPA REGISTERED LABEL.

ORNAMENTAL STATEMENT

Before treating with Diazinon AG400 WBC Insecticide alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 to 10 days prior to treating large areas to reduce the possibility of plant injury.

INSECT CONTROL ON BALSAM FIR GROWN OUTDOORS IN NURSERIES

PEST	RATE	COMMENTS
Aphids, Bagworms, Carnation Bud Mite, Carnation Shoot Mite, Clover Mite, Cyclamen Mite, Dipterous Leafminer, European Pine Shoot Moth, European Red Mite, Flea Beetles, Gall Midge, Holly Bud Moth, Leafhoppers, Obscure Root Weevil, Omnivorous Leaf-tier, Privet Mite, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mite, Juniper Webworm, Whiteflies,	½ fl. oz. per 3 gals. water or 12 ¾ fl. oz. per 100 gals. of water	Apply the recommended rates. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage.
Apple- and-Thorn Skeletonizer, Cotoneaster Webworm, European Pine Sawfly, Fall Webworm, Hemlock Chermes, Oak Looper, Obliquebanded Leafroller, Pear Slug, Tent Caterpillar	1 ¼ fl. oz. per 3 gals. of water or 25.6 fl. oz. per 100 gals. of water	
Mimosa Webworm	2 ½ teaspoons in 3 gals. of water or 13 ¼ fl. oz. in 100 gals. of water	Apply as a thorough foliar spray when adults first appear. Try to spray underside to leaves and penetrate dense foliage.
<ul style="list-style-type: none"> • The maximum application rate is 25.6 oz. per acre. • Make a maximum of one application per crop cycle. • The REI is 2 days. • Application is permitted only on commercial balsam fir grown outdoors in nurseries. 		

24[c] Registrant
Loveland Products, Inc.
PO Box 1286
Greeley, Colorado 80632-1286

**RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC 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.



DIAZINON AG600 WBC Insecticide

Water-Based Concentrate

**For control of certain insects on fruits, nuts, vegetables, and
ornamentals grown outdoors in nurseries.**

Active Ingredient:	% BY WT.
Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	56.0%
Inert Ingredients:	44.0%
Total	100.0%

Shake contents well before using.

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA REG. NO. 66222-103-34704

EPA EST. NO. 34704-MS-001

NET CONTENTS 2½ GALS. (9.46 L)

IHT

061509 V1D 10G09

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Do not contaminate food or feed. Food utensils, such as teaspoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not permit children or pets to contact treated areas until spray has dried. Do not contaminate ornamental fishponds.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators, and other handlers using engineering controls must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical resistant gloves if mixing or loading,
- Chemical resistant apron if mixing or loading.

See engineering controls for additional requirements.

Handlers performing tasks, such as cleaning equipment or spill clean-up for which engineering controls are not feasible must wear:

- Coveralls over long-sleeved shirt and long pants,
- Chemical resistant gloves,
- Chemical resistant footwear plus socks,
- Chemical resistant apron if exposed to the concentrate,
- A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA / NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA / NIOSH approval number prefix TC-14G) or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter. If mixing this product with oil, do not use N type prefilter.

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides that provides dermal and inhalation protection [40 CFR 170.240 (d)(4)], and must

- wear the personal protective equipment required for mixers/loaders using engineering controls
- wear protective eyewear if the system operates under pressure; and
- be provided and have immediately available for use in an emergency, such as a broken

package, spill, or equipment breakdown, chemical resistant footwear and the respirator specified in the PPE section of this labeling for handlers not using engineering controls.

Applicators using motorized ground equipment 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. Flaggers supporting aerial applications to lettuce 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.

In addition, applicators must -

- wear the personal protective equipment required in the PPE section of this labeling for handlers using engineering controls;
- either wear the respirator specified for handlers not using engineering controls 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 respirator specified for handlers not using engineering controls;
- be provided and have immediately available for use in an emergency when they must exit the cab in the treated area, coveralls, chemical resistant footwear, and if not already using one, the respirator specified for handlers not using engineering controls;
- 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.

Exception: For application to apples and lettuce, see directions for use for a special exception to these engineering controls requirements.

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

When entering or leaving an aircraft contaminated with pesticide residues, pilots must wear chemical resistant gloves and must store used gloves in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cockpit.

Note: Aerial applications are permitted only on lettuce.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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.

FIRST AID

This product contains diazinon, an organophosphate insecticide that inhibits cholinesterase.

If swallowed:	<ul style="list-style-type: none">• Call a 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 do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious or convulsing person.
If in eyes:	<ul style="list-style-type: none">• 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 center or doctor for further treatment advice.
If inhaled:	<ul style="list-style-type: none">• 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 center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• 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.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: This product contains diazinon, an organophosphate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, but should be administered only in conjunction with atropine.

DIAZINON AG600 WBC

EPA REG. NO. 66222-103-34704

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. 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 neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwater. This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide 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. **Reformulation or repackaging of this product is prohibited.**

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). The REI for each crop is listed in the directions for use associated with each crop. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 worn over long sleeve shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical resistant footwear plus socks,
- Chemical resistant headgear if overhead exposures.

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

WORK SAFETY RULES

Repeated exposures to cholinesterase inhibitors such as are contained in this product may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. When handling Diazinon AG600 WBC, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See FIRST AID section of this label. When handling this product, wear the personal protective equipment listed on this label.

GENERAL INFORMATION

Diazinon AG600 WBC is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use in greenhouses. Do not use in barns or dwellings. Do not use on livestock. Aerial application is prohibited except as allowed on the label for use on lettuce.

In the directions for use which follow, best control is obtained when application is made when infestation is noticed.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result. Failure to follow the directions for use and precautions on this label may result in poor insect control, crop injury, or illegal residues.

Do not use water from treated cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.

Note: The California Department of Pesticide Regulation has set a 5-day reentry period for diazinon on peaches and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

When an adjuvant is to be used with this product, Loveland Products, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

SPRAY EQUIPMENT

Applications of Diazinon AG600 WBC using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control.

To avoid spray drift, do not apply when conditions favor drift from beyond the target area. Avoid overlap because crop injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.

For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult your local or state agricultural authorities.

MIXING PROCEDURES

Thoroughly clean spray equipment before using this product. Prepare only the amount of spray mixture needed for the immediate application. Vigorous agitation is necessary for proper dispersal of this product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand in the spray tank overnight. Flush the spray equipment thoroughly following each use.

1. Diazinon AG600 WBC Alone:

Add ½ of the required amount of water to the mix tank. With the agitator running, add the Diazinon AG600 WBC to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Diazinon AG600 WBC has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

2. Diazinon AG600 WBC in Tank-Mixtures:

Note: Do not mix Diazinon AG600 WBC with any formulation of Captan or Captec® because crop injury may occur.

Diazinon is physically compatible with most insecticide and fungicide products; if you are not certain of the physical compatibility of Diazinon AG600 WBC with other tank mix partners, please contact your local Loveland Products, Inc. sales representative. When using Diazinon AG600 WBC in tank mixtures, observe each directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix products' labels. Confirm that the tank mixture is safe to the crop by spraying a small area first, and evaluating crop safety after an appropriate period. Do not treat larger areas until crop safety has been confirmed.

Add ½ of the required amount of water to the mix tank. Start the agitator running before adding any tank-mix partners. Add tank-mix partners in this order: all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank-mix partner to fully disperse before adding the next product. Maintain sufficient agitation while adding the remainder of the water and until all of the mixture has been applied.

PREHARVEST INTERVAL

The required days to wait between the last application and harvest are given in () after each crop name.

FRUIT AND NUT CROPS

Diazinon AG600 WBC may be applied using ground application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for application. The rate of Diazinon AG600 WBC for concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the rate calls for 1 pt. of Diazinon AG600 WBC in 100 gals. of water, this amounts to 3-4 pts. of product per acre when applied at the usual dilute ground spray volumes of 300 - 400 gals. of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the **COMMENTS** section for individual crops.

Note: To protect bees, do not apply this product to trees when trees or substantial numbers of weeds in the orchard are in bloom.

Diazinon AG600 WBC may be used during dormancy on deciduous trees and vines. When mixing with spray oils, follow oil manufacturer's use directions.

CROP	GROUND APPLICATION MINIMUM GALS./ACRE	
	Dilute	Concentrate
Almonds*	100	20
Apples	100	20
Apricots	100	20
Blackberries**	100	20
Blueberries	100	20
Boysenberries**	100	20
Cherries	100	20
Cranberries	15	-
Dewberries**	100	20
Loganberries**	100	20
Nectarines	100	20
Peaches	100	20
Pears	100	20
Plums	100	20
Prunes	100	20
Raspberries**	100	20
Strawberries	100	20

*CA Only

**CA, OH, OR, or WA Only

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FRUIT AND NUT CROPS			
CROP	INSECT	RATE	COMMENTS
ALMONDS (California Only)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ - 19 fl. oz. + 2 - 3 gals. dormant oil or 1-1 ½ gals. superior type oil in 100 gals. of water	Apply during the dormant season only.
	<ul style="list-style-type: none"> Do not apply more than 76 ½ fl. oz. of diazinon or 9 gals. of oil per acre. Make a maximum of one application per year during the dormant season only. Apply every other year unless pest infestations can be controlled only with consecutive annual treatments. The REI is 7 days. 		
APPLES (21)	Woolly Apple Aphid	12 ¾ fl. oz. in 100 gals. of water	Apply when infestations occur. Slight russetting may occur on some varieties of apples such as Golden Delicious.
	San Jose Scale	12 ¾ fl. oz. in 100 gals. of water	Apply as a dormant or delayed-dormant spray.
<ul style="list-style-type: none"> A maximum of two applications are allowed per year: 1) either one as a dormant application and one foliar application, or 2) two in-season foliar applications regardless of target pest. Minimum retreatment interval is 14 days. EXCEPTION for Airblast Applications to Apples: When application using enclosed-cab airblast equipment is not feasible in apple orchards, applicators are permitted to use open-cab airblast equipment, PROVIDED they are wearing chemical-resistant headgear AND the personal protective equipment specified in this labeling for handlers not using engineering controls. The REI is 4 days. 			
APRICOTS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz. in 100 gals. of water	Apply as a dormant spray only once per year. When using spray oils, follow spray oil manufacturer's use directions.
	Aphids, Brown Mite (Clover Mite), Two-spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation is noticed.
	Olive Scale Crawler	6 ½ fl. oz. + 1 ½ gals. of light medium horticultural oil per 100 gals. of water	Apply when crawlers are present.
	Apricot Mealybug	12 ¾ fl. oz. per 100 gals. of water	Apply as a cover spray from petal fall to June.
<ul style="list-style-type: none"> Do not apply more than 51 fl. ozs. of product per acre per application. A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. The REI is 4 days. 			
BLUEBERRIES (7)	Cranberry Fruitworm, Cherry Fruitworm, Blueberry Maggot, Aphids, Thrips, Two-spotted Spider Mite	12 ¾ fl. oz./A	Apply when infestation occurs.
	Fire Ants	12 ¾ fl. oz./A	To aid in the control of fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches around each fire ant mound. Apply gently to avoid disturbing ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours.
<ul style="list-style-type: none"> Do not apply more than 12 ¾ fl. oz. of product per acre per application. A maximum of two applications are allowed per year: 1) a maximum of one as an in-season foliar application regardless of target pest and 2) a maximum of one for control of fire ants. The REI is 5 days. 			
CANEBERRIES (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (California, Ohio, Oregon, and Washington Only) (7)	Raspberry Fruitworm	25 ½ fl. oz./A in 100 gals. of water	Apply when insects occur. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). Make application when blossom buds separate.
	Raspberry Crown Borer (Raspberry Root Borer)	51 fl. oz./A	Apply a single application in a minimum of 100 gals. of water per acre as a trench to the crown and lower canes in the spring before buds break.
<ul style="list-style-type: none"> Do not apply more than 51 fl. oz. of product per acre. Make a maximum of one application per year regardless of the target pest. The REI is 5 days. 			
CHERRIES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz./A in 100 gals. of water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Eyespotted Bud Moth, Fruittree Leafroller, Leafhoppers, Black Cherry Aphid, San Jose Scale Crawlers	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	Cherry Fruit Fly	6 ½ - 12 ¾ fl. oz. in 100 gals. of water	Apply when adult flies begin to emerge.
	Cherry Rust Mite	6 ½ - 12 ¾ fl. oz. in 100 gals. of water	Apply to trees after harvest.
<ul style="list-style-type: none"> Do not apply more than 51 fl. oz. of product per acre per application. A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. The REI is 4 days. 			

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FRUIT AND NUT CROPS cont'd.:

CROP	INSECT	RATE	COMMENTS
CRANBERRIES (7)	Blackheaded Fireworm (<i>Rhopobota neavana</i>)	51 fl. oz./A	Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days if necessary. A maximum of 3 applications per year is permitted regardless of target pest.
	Cranberry Tipworm	51 fl. oz./A	Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days if necessary. A maximum of 3 applications per season is permitted.
	Cranberry Fruitworm	51 - 76 ½ fl. oz./A	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management adviser. Repeat application after 14 days if necessary. A maximum of 3 applications per year is permitted regardless of target pest.
<ul style="list-style-type: none"> • For all pests, use in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation. • Do not make more than 3 applications per year regardless of the target pest. • Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA-approved diazinon labels. • The REI is 5 days. 			
NECTARINES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz. in 100 gals. of water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawler, San Jose Scale Crawler, Peach Twig Borer, Oriental Fruit Moth	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	<ul style="list-style-type: none"> • Do not apply more than 51 fl. oz. of product per acre per application. • A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. • For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. • The REI is 4 days. 		
PEACHES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz. in 100 gals. of water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Do not apply more than 51 oz. of product or 6 gals. of oil per acre. Apply only once during the dormant season.
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mite, Olive Scale Crawler, San Jose Scale Crawler	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	Oriental Fruit Moth	12 ¾ fl. oz. in 100 gals. of water	Apply at 100% petal fall.
	Peach Twig Borer, Parlatoria Scale	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	Leafhoppers	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	White Peach Scale	19-25 ½ fl. oz. in 100 gals. of water	Apply post harvest timed to coincide with peak crawler and immature scale activity.
	<ul style="list-style-type: none"> • Do not apply more than 51 fl. oz. of product per acre per application. • A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. • For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. • The REI is 4 days. 		
PEARS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Pear Leaf Blister Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz. + 2-3 gals. dormant oil or 1-1 ½ gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 51 oz. of product or 6 gals. of oil per acre. Apply only once during the dormant season.
	Pear Psylla	6 ½ -12 ¾ fl. oz. in 100 gals. of water	Apply as a cover spray at pre-pink stage.
	Tentiform Leafminer, Mealybugs, Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites	12 ¾ fl. oz. in 100 gals. of water	Apply as a cover spray. Note: Mites will be suppressed if diazinon is used in this regular cover spray program.
	Apple Maggot	12 ¾ fl. oz. in 100 gals. of water	Apply as a cover spray when flies are active and laying eggs.
	San Jose Scale Crawlers, Forbes Scale Crawlers	12 ¾ fl. oz. in 100 gals. of water	Apply when crawlers first appear.
	<ul style="list-style-type: none"> • Do not apply more than 51 fl. oz. of product per acre per application. • A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. • For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. • The REI is 4 days. 		
PLUMS (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz. in 100 gals. of water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Brown Mite (Clover Mite), European Red Mite	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	6 ½ - 12 ¾ fl. oz. in 100 gals. of water	
<ul style="list-style-type: none"> • Do not apply more than 51 fl. oz. of product per acre per application. • A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. • For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. • The REI is 4 days. 			

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FRUIT AND NUT CROPS cont'd.:

CROP	INSECT	RATE	COMMENTS
PRUNES (21)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite eggs, Brown Mite eggs, Twig Borer, Apple Aphid eggs, Black Cherry Aphid eggs, Mealy Plum Aphid eggs, Mealybugs	12 ¾ fl. oz. in 100 gals. of water	Apply as a dormant spray. When using spray oils, follow spray oil manufacturer's use directions. Apply only once during the dormant season.
	Brown Mite (Clover Mite), European Red Mite	12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	Leafcurl Plum Aphid, Mealy Plum Aphid, Thistle Aphid	6 ½-12 ¾ fl. oz. in 100 gals. of water	Apply when infestation occurs.
	<ul style="list-style-type: none"> Do not apply more than 51 fl. oz. of product per acre per application. A maximum of two applications are allowed per year: 1) a maximum of one as a dormant application and 2) a maximum of one as an in-season foliar application regardless of target pest. For in-season applications, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. The REI is 4 days. 		
STRAWBERRIES (5)	Aphids, Two-spotted Spider Mite, Strawberry Leafroller	12 ¾ fl. oz. in 100 gals. of water	Apply when pests occur.
	Cyclamen Mite	25 ½ fl. oz. in 100 gals. of water per acre	Direct spray to the plant crown. Plants should be sufficiently agitated to assure thorough coverage of the foliage.
	Mole Crickets	25 ½ fl. oz.	Broadcast in sufficient water to obtain even coverage when insects are present. Apply 1 - 2 days before transplanting and immediately incorporate into the top 1 - 2 inches of soil.
	<ul style="list-style-type: none"> Do not apply more than 25 ½ fl. oz. of product per acre per application. Make a maximum of one foliar application per crop and a maximum of one soil application per crop. The REI is 3 days. 		

VEGETABLE CROPS

For foliar or soil applications, Diazinon AG600 WBC should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Diazinon AG600 WBC may be applied using ground or aerial (lettuce only) application equipment as specified in the following table. Aerial application is prohibited except as allowed on the label for use on lettuce. This table indicates the minimum amount of water that can be used for the application. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Application Min. GPA	Min. Gals. 1000 Sq. Ft. (Ground)	Aerial Application Min. GPA
Beets, Red (Table)	10	2	-
Broccoli	10	2	-
Brussels Sprouts	10	2	-
Cabbage	10	2	-
Cantaloupes	5	1	-
Carrots	10	2	-
Casaba Melons	5	1	-
Cauliflower	10	2	-
Collards	10	2	-
Crenshaw Melons	5	1	-
Endive (Escarole)	10	2	-
Ginseng	10	2	-
Honeydew Melons	5	1	-
Kale	10	2	-
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelons	5	1	-
Mustard Greens	10	2	-
Onions (Bulb and Green)	10	2	-
Persian Melons	5	1	-
Radishes	10	2	-
Rutabagas	10	2	-
Spinach	10	2	-
Tomatoes	10	2	-
Watermelons	5	1	-

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season. Do not apply in greenhouses.

NOTES: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see directions for individual crops) using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches; for subterranean cutworms, incorporate 3-6 inches. (2) Diazinon will not control organophosphate-resistant leafminers.

VEGETABLE CROPS

CROP	INSECT	RATE	COMMENTS
BEETS, RED (Table)	Cutworms	51 - 102 fl. oz/A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz/A	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz/A	Broadcast just before planting and immediately incorporate into the top 4 - 8 inches of soil.
	<ul style="list-style-type: none"> Do not make more than one soil application per year regardless of target pest. The REI is 3 days. 		
BROCCOLI	Root Maggots	51- 76 ½ fl. oz/A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3 ¼ - 6 ½ fl. oz. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply recommended rate by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51- 102 fl. oz/A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.

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VEGETABLE CROPS cont'd.:

CROP	INSECT	RATE	COMMENTS
BROCCOLI cont'd.:	Mole Crickets	25 ½ fl. oz/A	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz/A	Broadcast just before planting and immediately incorporate into the top 4 - 8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
BRUSSELS SPROUTS	Root Maggots	51 - 76 ½ fl. oz/A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3 ¼ - 6 ½ fl. oz. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply recommended rate by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51-102 fl. oz/A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz/A	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz/A	Broadcast just before planting and immediately incorporate into the top 4 - 8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
CABBAGE	Root Maggots	51 - 76 ½ fl. oz/A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3 ¼ - 6 ½ fl. oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply recommended rate by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51 - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
CARROTS	Cutworms	51 - 102 fl. oz. /A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 3 days. 		
CAULIFLOWER	Root Maggots	51 - 76 ½ fl. oz./A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3 ¼ - 6 ½ fl. oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply recommended rate by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51 - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
COLLARDS	Cutworms	51 - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1 - 2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
ENDIVE (Escarole)	Cutworms	51 - 102 fl. oz. /A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
GINSENG (30)	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	9 ½ - 12 ¼ fl. oz./A	Spray when insects first appear. For heavy insect infestations, use 12 ¾ fl. oz. per acre. Apply by ground equipment using 10-100 gals. of water per acre.
	<ul style="list-style-type: none"> • Do not apply more than one application per year. • Do not apply during flowering of three- or four-year old crops. • Do not graze treated areas or feed treated forage to livestock. • The REI is 3 days. 		

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VEGETABLE CROPS cont'd.:

CROP	INSECT	RATE	COMMENTS
KALE	Cutworms	51 - 102 fl. oz. /A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz. /A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
LETTUCE (Head and Leaf) (14)	Cutworms	51 fl. oz. /A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	51 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminer	6 ½ - 12 ¾ fl. oz./A	Apply when insects occur.
	<ul style="list-style-type: none"> • Do not make more than one soil application per crop regardless of target pest. • Do not make more than one foliar application per crop regardless of target pest. • Aerial application is permitted on lettuce. • EXCEPTION: Applicators applying to lettuce are permitted to use open-cab equipment provided they are wearing chemical-resistant headgear AND the personal protective equipment specified in this labeling for handlers not using engineering controls. • The REI is 3 days. 		
MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and hybrids of these) and WATERMELONS (3)	Cutworms	51 - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 3 days. 		
HONEYDEW MELONS	Aphids, Dipterous Leafminer, Thrips, Striped Cucumber Beetle, Melonworms, Leafhoppers, Spider mites	6 ½ - 19 fl. oz./A	Apply when infestation occurs.
	<ul style="list-style-type: none"> • Do not make more than one foliar application per year regardless of target pest. • The REI is 3 days. 		
MUSTARD GREENS	Cutworms	51 - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 4 days. 		
ONIONS (Bulb and Green)	Onion Maggots	51 - 102 fl. oz./A	Broadcast just before planting and mix into the top 3-4 inches of soil. Note: Diazinon will not control organophosphate-resistant onion maggots.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 3 days. 		
RADISHES	Cutworms	51 - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 3 days. 		
RUTABAGAS	Cabbage Maggot	51- 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil to a depth of 4 inches. See Soil Incorporation note.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year. • The REI is 4 days. 		
SPINACH	Cutworms	51- 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per year regardless of target pest. • The REI is 3 days. 		
TOMATOES	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. See Soil Incorporation note.
	Mole Crickets	25 ½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 ½ - 102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	<ul style="list-style-type: none"> • Do not make more than one soil application per growing season regardless of target pest. • The REI is 2 days. 		

ORNAMENTAL STATEMENT

Before treating a large number of ornamental plants with Diazinon AG600 WBC alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 to 10 days prior to treating large areas to reduce the possibility of plant injury.

DIAZINON AG600 WBC

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INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES

CROP	PEST	RATE	COMMENTS	
ARBORVITAE, AZALEA, BIRCH, BOXWOOD, CAMELLIA, CARNATION, CHRYSANTHEMUM, CRABAPPLE, DOGWOOD, DOUGLAS FIR, ELM, EUONYMUS, GLADIOLI, HAWTHORN, HOLLY, HONEY LOCUST, HONEYSUCKLE, JUNIPER, LILAC, LILY, LOCUST, MAPLE, MARIGOLD, OAK, PANSY, PETUNIA, PINE, ORNAMENTAL PLUM, POPLAR, RHODODENDRON, ROSE, SCOTCH PINE, SPIREA, SPRUCE, SYCAMORE, WAX PLANT (Hoya), WILLOW, YELLOWWOOD, and YEW	Aphids, Bagworms, Carnation Bud Mite, Carnation Shoot Mite, Clover Mite, Cyclamen Mite, Dipterous Leafminer, European Pine Shoot Moth, European Red Mite, Flea Beetles, Holly Bud Moth, Leafhoppers, Obscure Root Weevil, Omnivorous Leaf-tier, Privet Mite, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mite, Juniper Webworm, Whiteflies	½ fl. oz. per 3 gals. water or 12 ¾ fl. oz. per 100 gals. of water	Apply the recommended rates. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage.	
	Apple-and-Thorn Skeletonizer, Cotoneaster Webworm, European Pine Sawfly, Fall Webworm, Hemlock Chermes, Oak Looper, Obliquebanded Leafroller, Pear Slug, Tent Caterpillar	1 ¼ fl. oz. per 3 gals. of water or 25.6 fl. oz. per 100 gals. of water		
	Mimosa Webworm	2 ½ teaspoons in 3 gals. of water or 13 ¼ fl. oz. in 100 gals. of water	Apply as a thorough foliar spray when adults first appear.	
<ul style="list-style-type: none"> • Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur. • The maximum application rate on all ornamentals is 25.6 ounces per acre. • Make a maximum of one application per crop cycle. • The REI is 7 days for flowers and other commercial ornamentals grown for cutting. • The REI is 2 days for all other commercial ornamentals. • Application is permitted only on commercial ornamentals grown outdoors in nurseries. 				

CHEMIGATION (APPLICATION THROUGH AN IRRIGATION SYSTEM)

Diazinon AG600 WBC may be applied alone or in combination with other pesticides registered for application through sprinkler (including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move) or drip (trickle) irrigation systems (including surface and subsurface). Do not apply this product through any other type of irrigation system. Diazinon is physically compatible with most insecticide and fungicide products; if you are not certain of the physical compatibility of Diazinon AG600 WBC with other tank mix partners, please contact your local Loveland Products, Inc. sales representative. **Note: Do not mix Diazinon AG600 WBC with any formulation of Captan or Captec® because crop injury may occur.**

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect the irrigation system used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments if the need arises.

Chemigation systems connected to public water systems

Note: Loveland Products, Inc. does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

- Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Sprinkler and Drip (trickle) Chemigation

- 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 backflow.
- 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 a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 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 fitted with a system interlock.
- Do not use sprinkler chemigation when wind speed favors drift beyond the area intended for treatment.

Operating Instructions

- Determine the acreage to be treated by the system.
- Measure the appropriate amount of Diazinon AG600 WBC needed to treat the acreage to be treated. Refer to the specific directions for use for the application rate and the amount of water per acre.
- Add the pre-measured Diazinon AG600 WBC to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if Diazinon AG600 WBC is tank mixed with other pesticides registered for sprinkler or drip chemigation.

- Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
- Engage the chemigation injection or venturi system to add the Diazinon AG600 WBC to the irrigation lines.
- Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

Note: When treatment with Diazinon AG600 WBC has been completed, further field irrigation over the treated area should be avoided for 48 hours to prevent washing the product off of the crop.

Apply Diazinon AG600 WBC only in sufficient irrigation water to achieve thorough plant coverage. Excess water will wash the product from the plant resulting in poor control. To avoid a hazard to animals, wells or adjoining crops, do not allow irrigation water to collect or runoff.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: If freezing occurs, place the product in a warm room (68°F or above) and allow to thaw. Roll or shake container frequently until thawing is complete.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example street drains). If pesticide, spray mixture, or rinsate cannot be disposed of by use according to the 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 (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, incinerate or burn, if allowed by state and local authorities. Stay out of smoke from burning container.

Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, incinerate or burn, if allowed by state and local authorities. Stay out of smoke from burning container.

Refillable Container: Refillable container. Refill this container with diazinon only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

DIAZINON AG600 WBC
EPA REG. NO. 66222-103-34704

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Captec is a registered trademark of MICRO FLO COMPANY LLC

SUPPLEMENTAL LABEL
DIAZINON AG600 WBC INSECTICIDE
EPA REG. NO. 66222-103-34704

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

FOR PROTECTION OF AQUATIC SPECIES IN COUNTIES AND PORTIONS OF COUNTIES LOCATED IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS BELOW 1000 FEET ELEVATION FROM POTENTIAL CONTAMINATION IN SURFACE WATERS OF DIAZINON APPLIED DURING THE DORMANT SPRAY PERIOD, THE FOLLOWING ADDITIONAL LABEL REQUIREMENTS APPLY:

- Dormant applications on orchard crops are restricted to ground application equipment only.
- Do not apply within 100 feet upslope of "sensitive aquatic sites" such as any irrigation ditch, drainage canal or body of water that may drain into a river or tributary unless a suitable method is used to contain or divert runoff waters. Waters that are contained or diverted must be held for a minimum of 72 hours before release into a sensitive aquatic site.
- Maintain a vegetative buffer strip a minimum of 10 feet wide from the edge of a field that is adjacent to and within 100 feet of sensitive aquatic sites.
- Do not apply this product to orchards when soil moisture is at field capacity and/or when a storm event likely to produce runoff from the treated orchard is forecasted by NOAA/NWS (National Weather Service) to occur within 48 hours following application.
- Make dormant applications only when insect scouting information or the recommendation of a Pest Control Advisor indicate treatment is required. (See UC IPM Guidelines for San Jose Scale in stone fruits and almonds and aphids in stone fruits. Use the prune dormant spur sampling program to determine need for a dormant treatment in that crop).
- Apply only when wind speed is 3-10 mph at the application site as measured by an anemometer outside of the orchard on the side nearest and upwind from a sensitive site.
- When sensitive aquatic sites are downwind from orchards, spray the first three rows nearest the sensitive aquatic sites only when the wind is blowing away from the sites. The row at the edge of the field next to sensitive aquatic sites must be sprayed with the outside nozzles turned off. Spray must not be directed higher than the tree canopy and spray must be directed away from sensitive aquatic sites.
- The Stewardship Bulletin "Orchard Practices for Protecting Surface Water" must be available to handlers and equipment operators at the application site during all application activities. (Note: Bulletin available through CURES.)

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION. PLEASE REFER TO CONTAINER LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



P.O. BOX 1286, GREELEY, COLORADO 80632-1286

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300

Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: DIAZINON AG600 WATER-BASED CONCENTRATE INSECTICIDE
CHEMICAL NAME: Diazinon; (O-O-diethyl O- (2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate)
CHEMICAL FAMILY: Organophosphate Insecticide
EPA REG. NO.: 66222-103-34704
MSDS Number: 66222103-10-LPI **MSDS Revisions:** Sections 1, 2, 4, 13 **Date of Issue:** 07/06/10

Supersedes: 10/15/07

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Do not contaminate of food or feed. Food utensils such as tablespoons and measuring cups should not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets or livestock. Do not contaminate ornamental fishponds.

This product is an off-white liquid with slight sulfur-like odor.

Warning Statements:

NOTE TO PHYSICIAN: This product is an organophosphate (cholinesterase-inhibiting) insecticide. Atropine is antidotal and should be given in multiple doses as necessary until the patient is atropinized. 2-PAM is also antidotal, but should be administered only in conjunction with Atropine. Monitor serum and RBC cholinesterase. Morphine, theophylline, aminophylline, phenothiazines, reserpine, furosemide, or ethacrynic acid are contraindicated in organophosphate poisonings. Administer intravenous fluids cautiously, if needed, to correct dehydration. Symptoms of cholinesterase inhibition can include headache, dizziness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis, tearing, salivation, pulmonary edema, uncontrollable twitches, convulsions, coma, and loss of reflexes and sphincter control.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Diazinon	56.00	333-41-5	0.01 mg/m ³ (Skin)
Inert Ingredients	44.00		

This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

4. FIRST AID MEASURES

If swallowed: Call a 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 do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.

If in eyes: Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center 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. Call a poison control center or doctor for further 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.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): 220°F/104.5°C (PMCC)
FLAMMABLE LIMITS (LFL & UFL): None established
EXTINGUISHING MEDIA: This product is water-based; use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition products include, but are not limited to, various aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, dike to prevent runoff contamination of municipal sewers and waterways.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved pesticide respirator or air-supplied respirator.
 For small spills, absorb with an absorbent material such as pet litter. Sweep up and place in an approved chemical container for proper disposal. Check local, state and federal regulations for proper disposal. For large spills, contain liquid by diking the area, keep product out of water supplies. If possible use a pump to pick up liquid, then use absorbent material to absorb any residual liquid. Place both in an approved container. Flush the area with a household bleach and water mixture (1:1) and then absorb the liquid as described in small spills.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: 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 after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not use, pour, spill or store near heat or open flame.

STORAGE: If freezing occurs, place the product in a warm room (68°F/20°C or above) and allow to thaw. Roll or shake container frequently until thawing is complete. Do not contaminate water, food or feed by storage or disposal.

Personal Protective Equipment: Mixers, loaders, applicators and other handlers using engineering controls must wear: long sleeved shirt and long pants, shoes plus socks, chemical resistant gloves if mixing or loading, and chemical resistant apron if mixing or loading. **Handlers performing tasks, such as cleaning equipment or spill clean-up for which engineering controls are not feasible must wear:** coveralls over long sleeved shirts and long pants, chemical resistant gloves, chemical resistant footwear plus socks, chemical resistant apron if exposed to concentrate, and a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter. 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. Discard clothing and other absorbent material that has been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

RESPIRATORY PROTECTION: Not normally required, if vapors or mists exceed acceptable levels, wear a NIOSH approved pesticide respirator.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Diazinon	not listed	0.01 mg/m ³ (Skin)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Off-white liquid with slight sulfur-like odor.	SOLUBILITY: Slight
SPECIFIC GRAVITY (Water = 1): 1.07 g/ml	pH: 7-8 (1% solution)
VAPOR PRESSURE: <0.1 mm Hg @ 25°C	BULK DENSITY: 8.93 lbs/gal.
PERCENT VOLATILE (by volume): > 30%	BOILING POINT: Not established
Note: These physical data are typical values based on material tested but may vary from sample to sample.	EVAPORATION RATE: > 30%
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.	

10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong bases, acids, and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition – aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Excessive heat and ignition sources.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): 1600 mg/kg	Acute Dermal LD₅₀ (rabbit): > 2020 mg/kg
Eye Irritation (rabbit): Causes irritation	Skin Irritation (rabbit): Non-irritating
Inhalation LC₅₀ (rat): >2.5 mg/L (4 hr)	Skin Sensitization (Guinea Pig): Not a sensitizer
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH	

12. ECOLOGICAL INFORMATION

Summary of Effects: Diazinon is highly toxic to birds, fish, and other wildlife. Avoid exposure to waterfowl. Keep out of lakes, streams, ponds, tidal marches, and estuaries. 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 neighboring areas. Shrimp and crab may be killed at application rates on the product label. Do not apply this product where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

MATERIAL SAFETY DATA SHEET

DIAZINON AG600 WBC

Eco-Acute Toxicity

96 HR LC₅₀

48 HR LC₅₀

Rainbow Trout 1.8 mg A.I./L
Bluegill Sunfish 0.21 mg A.I./L

Daphnia Magna

0.0011 mg A.I./L

Bobwhite Oral LD₅₀: 5.2 mg/kg
Mallard Oral LD₅₀: 1.44 mg/kg
Bobwhite 8-day Dietary LC₅₀: 235 ppm
Mallard 8-day Dietary LC₅₀: 33 ppm A.I.

Eco-Chronic Toxicity

Diazinon: Fish (Fathead minnow) Early Life Stage MATC >0.092 and <0.17 mg/L
Invertebrate (Daphnia Magna) Life Cycle MATC >0.00017 and <0.00032 mg/L
Mallard Reproduction NOEC 10 ppm (ChE inhibition <5 ppm)
Bobwhite Reproduction NOEC 40 ppm (ChE inhibition < 10 ppm)

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example street drains). If pesticide, spray mixture, or rinsate cannot be disposed of by use according to the 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: Non-refillable Container (five gallons or less): Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, incinerate or burn, if allowed by state and local authorities. Stay out of smoke from burning container. **Non-refillable Container (greater than five gallons):** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, incinerate or burn, if allowed by state and local authorities. Stay out of smoke from burning container. **Refillable Container:** Refillable container. Refill this container with Diazinon only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (DIAZINON) MARINE POLLUTANT ERG GUIDE 171

U.S. Surface Freight Classification: INSECTICIDES, INSECT REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120, CLASS: 60)
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA	HMIS
	1 Health	0 Least
	1 Flammability	1 Slight
	0 Instability	2 Moderate
		3 High
		4 Severe
		1 Health
		1 Flammability
		0 Reactivity
		H PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate <u>Y</u>	Fire <u>N</u>	Sudden Release of Pressure <u>N</u>
	Delayed <u>Y</u>	Reactive <u>N</u>	

Reportable Quantity (RQ) under U.S. CERCLA: Diazinon (CAS: 333-41-5): 1 pound

SARA, Title III, Section 313: Diazinon (CAS: 333-41-5) 56.0%

RCRA Waste Code: Not listed

CA Proposition 65: Not listed.

16. OTHER INFORMATION

MSDS STATUS: Sections 1, 2, 4 and 13 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

This product is a RESTRICTED USE PESTICIDE due to Avian and Aquatic Toxicity

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