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



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

August 3, 2012

Darin W. Lickfeldt Dow AgroSciences 9330 Zionsville Road Indianapolis, IN 46268

Dear Dr. Lickfeldt:

Subject:

Amended label to revise the directions for use in nurseries

Lorsban® 50W in Water Soluble Packets

EPA Registration No. 62719-221

EPA Decision No. 465530

Your submission dated May 18, 2012

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable with the following comments:

• On page 21, under the section for Christmas Trees, add the following statement to the beginning of the first paragraph (regarding wholesale nurseries): "Apply to ornamentals grown only in wholesale nursery operations."

A stamped copy of the label is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Julie Chao by phone at: (703) 308-8735, or by email at: chao.julie@epa.gov.

Regards,

Venus Eagle, Product Manger (01) Insecticide-Rodenticide Branch Registration Division (7505P)

Enclosure

[Sub Label A: Ag Uses]



Box label:

Lorsban® 50W in Water Soluble Packets

Insecticide

For control of listed insects on certain fruit, nut and vegetable crops

Keep Out of Reach of Children

DANGER PELIGRO

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for additional precautionary information including Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-221

EP/	A Est.	

Trademark of Dow AgroSciences LLC
Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

Net Weight __ x __ x 1 lb

ACCEPTED
With COMMENTS
In EPA Letter Dated:
AUG - 3 2012

Under the Federal Insecticide, Fungicide and Rodenticide Act, As amended, for the pesticide Registered under EPA Reg. No:

62719-221



Overpack label:



Lorsban® 50W in Water Soluble Packets

Insecticide

For control of listed insects on certain fruit, nut and vegetable crops

The contents of this package are not for individual resale. This product is not for residential use.

Active Ingredient:

chlorpyrifos: O.O-diethyl O-(3.5.6-trichloro-

2 pyridinyl) phosphorothioate......50% Other Ingredients......50%

Keep Out of Reach of Children

PELIGRO DANGER

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Corrosive • Causes Irreversible Eve Damage • May Be Fatal If Swallowed

Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Work to windward to stay out of spray drift or mist. Keep away from food, feedstuffs, and water supplies.

Personal Protective Equipment (PPE)

Materials that are chemical-resistant to this product are barrier laminate and viton.

Mixers and loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant apron

Applicators using aerial application equipment must wear:

- · Long-sleeved shirt and long pants
- · Shoes plus socks
- Protective eyewear (goggles or face shield)

See Engineering Controls for additional requirements.

All other handlers must wear:

- · Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant apron when mixing or loading
- Chemical-resistant footwear plus socks

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- Protective eyewear (goggles or face shield)
- · Chemical-resistant headgear for overhead exposure
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter

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

Engineering Controls

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders, and have immediately available for use in emergency (such as a broken package, spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter.

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

Use of human flaggers is prohibited. Mechanical flagging equipment must be used.

When applicators use closed cab motorized ground equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(e)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

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

Organophosphate

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

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 person.

Note to physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is toxic to fish aquatic invertebrates small mammals and birds. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated sites. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Refer to the Endangered Species Restrictions section of this label for any geographic restrictions.

Endangered Species Restrictions

The use of Lorsban 50W may pose a hazard to certain federally endangered fish species This product cannot be used on sour cherry trees in the following counties

Colorado Delta Larimer and Mesa
Ohio Washington
Utah Emery Grand Utah and Washington
Wisconsin Iowa Pierce Richland and Vernon

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 Refer to label booklet under Agricultural Use Requirements in the Directions for Use section for information about this standard

Storage and Disposal

Do not contaminate water food or feed by storage and disposal

Pesticide Storage Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance

Container Handling Nonrefillable container Do not reuse or refill this container Offer for recycling if available

Refer to label booklet for Directions for Use

Notice Read the entire label Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product call 1-800-992 5994

Agricultural Chemical Do not ship or store with food feeds drugs or clothing

EPA Reg No 62719-221

Trademark of Dow AgroSciences LLC
Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

EPA Est _____

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Net Weight ____ XX x 1 lb water soluble pouches

Bulk base label

Lorsban® 50W in Water Soluble Packets

Insecticide

For control of listed insects on certain fruit, nut and vegetable crops

Active Ingredient

chlorpyrifos O O-diethyl O (3 5 6 trichloro

2 pyridinyl) phosphorothioate

50%

Other Ingredients

50%

Total

100%

Keep Out of Reach of Children

PELIGRO DANGER

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed

Do not get in eyes or on clothing Wear protective eyewear (goggles or face shield) Work to windward to stay out of spray drift or mist. Keep away from food, feedstuffs, and water supplies

Personal Protective Equipment (PPE)

Materials that are chemical-resistant to this product are barrier laminate and viton

Mixers and loaders must wear

Long-sleeved shirt and long pants

Chemical resistant gloves

Shoes plus socks

Protective eyewear (goggles or face shield)

Chemical resistant apron

Applicators using aerial application equipment must wear

Long-sleeved shirt and long pants

Shoes plus socks

Protective eyewear (goggles or face shield)

See Engineering Controls for additional requirements

All other handlers must wear

Coveralls over long sleeved shirt and long pants

Chemical-resistant gloves

Chemical-resistant apron when mixing or loading

Chemical-resistant footwear plus socks

Protective eyewear (goggles or face shield)

Chemical-resistant headgear for overhead exposure

A NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R P or HE filter

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

Engineering Controls

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R. P. or HE filter.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170 240(d)(6)]

Use of human flaggers is prohibited Mechanical flagging equipment must be used

When applicators use closed cab motorized ground equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170 240(e)(4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS

User Safety Recommendations

Users should

Wash hands before eating drinking chewing gum using tobacco or using the toilet Remove clothing/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

Organophosphate

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

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 person.

Note to physician Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine only by injection is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration. **Note to physician** Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is toxic to fish aquatic invertebrates small mammals and birds. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated

areas Do not contaminate water when cleaning equipment or disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Refer to the Endangered Species Restrictions section of this label for any geographic restrictions.

Endangered Species Restrictions

The use of Lorsban 50W may pose a hazard to certain federally endangered fish species
This product cannot be used on sour cherry trees in the following counties

Colorado Delta Larimer and Mesa
Ohio Washington
Utah Emery Grand Utah and Washington
Wisconsin Iowa Pierce Richland and Vernon

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 Refer to label booklet under 'Agricultural Use Requirements in the Directions for Use section for information about this standard

(Storage and Disposal for refillable rigid containers greater than 5 gal)

Storage and Disposal

Do not contaminate water food or feed by storage and disposal

Pesticide Storage Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance

Container Handling Refillable container Refill this container with pesticide 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 a mix tank. Fill the container about 10% full with water and if possible spray all sides while adding water. If practical agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)

Storage and Disposal

Do not contaminate water food or feed by storage and disposal

Pesticide Storage Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance

Container Handling Nonrefillable container Do not reuse or refill this container Offer for recycling if available

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Trademark of Dow AgroSciences LLC
Produced for
Dow AgroSciences LLC

9330 Zionsville Road Indianapolis, IN 46268

EPA Reg. No. 62719-221

Net Weight ____

EPA Est.

[Editor's Note: The net weight of the bulk label must be more than 25 lb. The specific amount will be filled in at the time of production.]

WSP label

Lorsban® 50W in Water Soluble Packets

Insecticide

This bag [container] is not for individual resale. This product is not for residential use

Active Ingredient
chlorpyrifos O O-diethyl O-(3 5 6-trichloro2 pyridinyl) phosphorothioate
50%
Other Ingredients
50%
Total

Keep Out of Reach of Children

DANGER PELIGRO

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

Refer to label booklet for Directions for Use

EPA Reg No 62719 221

Label booklet cover

Lorsban® 50W in Water Soluble Packets

Insecticide

For control of listed insects on certain fruit, nut and vegetable crops

Active Ingredient
chlorpyrifos O O-diethyl O-(3 5 6-trichloro
2 pyridinyl) phosphorothioate
50%
Other Ingredients
50%
Total

Keep Out of Reach of Children

DANGER PELIGRO

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Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 Refer to label booklet under Agricultural Use Requirements' in the Directions for Use section for information about this standard

Refer to inside of label booklet for additional precautionary information including Directions for Use

Notice Read the entire label Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product call 1-800 992-5994

Agricultural Chemical Do not ship or store with food feeds drugs or clothing

[®]Trademark of Dow AgroSciences LLC **Produced for**

Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

EPA Reg No 62719-221

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EPA Est

[Editor's Note The specific amount will be filled in at the time of production depending upon whether the product is in water soluble packets or a bulk container]

(Page 1 through end)

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Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed

Do not get in eyes or on clothing Wear protective eyewear (goggles or face shield) Work to windward to stay out of spray drift or mist. Keep away from food, feedstuffs, and water supplies

Personal Protective Equipment (PPE)

Materials that are chemical resistant to this product are barrier laminate and viton

Mixers and loaders must wear

Long-sleeved shirt and long pants Chemical resistant gloves Shoes plus socks Chemical resistant apron Protective eyewear (goggles or face shield)

Applicators using aerial application equipment must wear

Long sleeved shirt and long pants Shoes plus socks Protective eyewear (goggles or face shield)

See Engineering Controls for additional requirements

All other handlers must wear

Coveralls over long sleeved shirt and long pants

Chemical resistant gloves

Chemical-resistant apron when mixing or loading

Chemical-resistant footwear plus socks

Protective eyewear (goggles or face shield)

Chemical-resistant headgear for overhead exposure

A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R P or HE filter

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

Engineering Controls

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R. P. or HE filter.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170 240(d)(6)]

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Use of human flaggers is prohibited Mechanical flagging equipment must be used

When applicators use closed cab motorized ground equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170 240(e)(4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS

User Safety Recommendations

Users should

Wash hands before eating drinking chewing gum using tobacco or using the toilet Remove clothing/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

Organophosphate

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

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 person.

Note to physician Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine only by injection is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Note to physician. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is toxic to fish aquatic invertebrates small mammals and birds. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Refer to the Endangered Species Restrictions section of this label for any geographic restrictions.

Endangered Species Restrictions

The use of Lorsban 50W may pose a hazard to certain federally endangered fish species. This product cannot be used on sour cherry trees in the following counties.

Colorado Delta Larimer and Mesa
Ohio Washington
Utah Emery Grand Utah and Washington
Wisconsin Iowa Pierce Richland and Vernon

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling Read all Directions for Use carefully before applying

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.

Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirements pursuant to 40 CFR Part 170.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, such as plants, soil, or water, is:

- · Coveralls over short-sleeved shirt and short pants
- · Chemical-resistant gloves made of any waterproof material
- · Chemical-resistant footwear plus socks
- · Chemical-resistant headgear for overhead exposure

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

Storage and Disposal

Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited. Pesticide Storage: Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Nonrefillable nonrigid containers:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Refillable rigid containers larger than 5 gal:

Container Handling: Refillable container. Refill this container with pesticide 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 a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then



offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable rigid containers larger than 5 gal:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Product Information

Lorsban® 50W in Water Soluble Packets insecticide is designed for use as a cover or foliar spray to control various pests. The pests controlled are listed in the rate table in each section.

Use Precautions and Restrictions

Insect control may be reduced at low spray volumes under high temperature and wind conditions.

Some reduction in insect control may occur under unusually cool conditions.

Flood Irrigation: To avoid contamination of irrigation tail waters, do not flood irrigate within 24 hours following application of Lorsban 50W.

Chemigation: Do not apply this product through any type of irrigation system.

Handling Precautions for Water Soluble Packets: Do not remove water soluble packet from the overpack except for immediate use. Do not allow water soluble packets to come into contact with water prior to use. Do not handle water soluble packets with wet hands or wet gloves. Do not open water soluble packets. Do not remove packets from overwrap except to add the intact packet directly into the spray tank. Do not split packets. Partial use of packets is not allowed. Carefully reseal package containing unopened water soluble packets and protect package from moisture.

Spray Drift Management

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland sites, woodlands, pastures, rangelands, or animals.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making decision to apply this product.

Observe the following precautions when spraying Lorsban 50W adjacent to permanent bodies of water such as rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds.

The following treatment setbacks or buffer zones must be utilized for all applications around the above listed aquatic areas with the following application equipment:

1	7	1	
	1	4	3
	1	17	17/4

Application Method	Required Setback (Buffer Zone) (ft)
ground boom	25
orchard airblast	50
aerial (fixed wing or helicopter)	150

Making applications when wind is blowing away from sensitive areas is the most effective way to reduce the potential for adverse effects.

Follow these spray drift **best management practices** to avoid off-target drift movement from applications.

Aerial Application

- The boom width must not exceed 75% of the wingspan or 90% of the rotor blade.
- Nozzles must always point backward, parallel with the air stream, and never be pointed downward more than 45 degrees.
- Nozzles must produce a medium or coarser droplet size (255 to 340 microns volume median diameter) per ASABE Standard 572.1 under application conditions. Airspeed, pressure, and nozzle angle can all effect droplet size. See manufacturer's catalog or USDA/NAAA Applicator's Guide for spray size quality ratings.
- Do not make applications at a height greater than 10 feet above the top of the target plants unless a
 greater height is required for aircraft safety. Making applications at the lowest height that is safe
 reduces exposure of droplets to evaporation and wind.
- Use upwind swath displacement and apply only when wind speed is 3 to 10 mph as measured by an anemometer. Do not apply product when wind speed exceeds 10 mph.
- If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

Where states have more stringent regulations, they must be observed.

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

Aerial Drift Reduction Advisory

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

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

Controlling Droplet Size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

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

Boom Length: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

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

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

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Do not apply_below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

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

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

Ground Boom Application

The following mandatory spray drift **best management practices** are required to reduce the likelihood of off-target drift movement from ground applications.

- Choose only nozzles and pressures that produce a medium or coarse droplet size (255 to 400 microns volume median diameter) per ASABE Standard 572.1. See manufacturer's catalog or USDA/NAAA Applicator's Guide for spray size quality ratings.
- Apply with nozzle height no more than 4 feet above the ground or crop canopy.
- Do not apply product when wind speed exceeds 10 mph as measured by an anemometer.

Orchard Airblast Application

The following mandatory spray drift **best management practices** are required to reduce the likelihood of off-target drift movement from airblast applications.

Direct nozzles so spray is not projected above the canopies.

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- Apply only when wind speed is 3 to 10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side
- Outward pointing nozzles must be shut off when turning corners at row ends

The applicator should take into account the following **best management practices** to reduce off-site spray drift. This section is advisory and does not supercede mandatory label requirements

- Number of nozzles nozzle orientation and spray volume air speed and wind direction are key factors
 in adjusting airblast spray delivery to match the height and density of the crop canopy. Adjust airblast
 equipment to provide uniform coverage while minimizing the amount of spray movement over the top or
 completely through the crop canopy.
 - High air volumes deliver spray more efficiently than air at high speed. Reducing forward travel speed decreases the air speed necessary to deliver the spray to the top of the crop canopy
 - Use air guides along with the number and orientation of spray nozzles to achieve the desired spray coverage and diretional control
- Take the following steps to minimize drift and the amount of non-target spray
 - Orient nozzles and adjust air speed/volume/direction to force the spray through the crop canopy but not allow drift past the canopy
 - Shut off spray delivery when passing gaps in crop canopy within rows
 - Spray the outside rows of orchards from outside in directing the spray into the orchard and shutting
 off nozzles on the side of the sprayer away from the orchard
 - When treating smaller trees vines or bushes shut off top nozzles to minimize over the top spray movement

Application Directions

Broadcast Foliar Application

Apply with conventional power-operated spray equipment using nozzles and spray pressures specified for insecticides. Apply Lorsban 50W in a spray volume of not less than 2 gallons per acre (gpa) for aerial application equipment (fixed wing or helicopter) or not less than 10 gpa for ground equipment, unless otherwise specified. Increase spray volume to ensure adequate coverage with increased density and height of crop canopy.

Ground Application Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom. Follow nozzle manufacturer's recommendations for insecticide nozzles with respect to nozzle type pressure, and spacing

Broadcast Soil Application

Apply with conventional power-operated spray equipment that will apply the product uniformly to the soil surface. Use nozzles that produce medium or coarse droplets (235 to 400 microns). Unless otherwise indicated a spray volume of 10 gpa or more is needed. For band application, use proportionally less spray volume.

Aerial Application

Use a minimum spray volume of 2 gpa Marking of swaths by flagging permanent markers or use of GPS equipment is recommended

Mixing Directions

Lorsban 50W Alone

Lorsban 50W mixes readily with water to form a suspension Do not apply Lorsban 50W (in water soluble packets) with liquid fertilizer or oil as a carrier Thorough mixing is required. To prepare the spray mixture

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- 1 Fill the tank with 1/3 full of the total amount of water required for the load
- 2 Start agitation Maintain agitation throughout mixing and application
- 3 Add the required number of water soluble packets (product in transparent film) directly into the spray tank. Water soluble packets will float on the surface until the water soluble film dissolves and releases the product. Minimize the handling of packets. Important. Do not open water soluble packets.
- 4 Continue agitation and complete filling the tank
- 5 Before spraying make sure packets have completely disintegrated and product is thoroughly and uniformly mixed. Depending upon the water temperature and the degree of agitation, the packet and product should be completely dispersed within 10 minutes from the time they were added to the water.

To ensure a uniform spray mixture continuous agitation is required during mixing and spraying. Apply the same day as mixing especially at high concentrations (low carrier rates). If product is allowed to settle thoroughly agitate to resuspend the mixture before spraying.

Lorsban 50W - Tank Mix

Vigorous continuous agitation during mixing filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank avoid stirring or splashing air into the spray mixture.

Apply within the same day of mixing If spraying and agitation must be stopped before the spray tank is empty the materials may settle to the bottom. If product is allowed to settle thoroughly agitate to resuspend the mixture before spraying especially if held overnight. Settled materials may be more difficult to resuspend than when originally mixed.

Lorsban 50W is compatible with commonly recommended insecticides miticides and fungicides Lorsban 50W is not compatible with alkaline materials such as Bordeaux mixture and lime or with mixtures containing boron. Do not apply with micronutrient solutions containing boron. Thoroughly clean spray equipment used to apply any spray mixture containing boron before applying this product.

Mixing Order

- 1 Fill the spray tank with water to 1/4 to 1/3 of the total spray volume required
- 2 Start agitation Maintain agitation throughout mixing and application
- 3 Add different formulation types in the following order allowing time for complete mixing and dispersion after addition of each product. Lorsban 50W other dry flowables wettable powders aqueous suspensions flowables and liquids.
- 4 Maintain agitation and fill spray tank to 3/4 of total spray volume
- Add emulsifiable concentrates and any solutions and finish filling the spray tank. Allow extra mixing and dispersion time for dry flowable products

Tank Mix Compatibility Test Test compatibility of the intended tank mixture before adding Lorsban 50W to the spray or mix tank. Add proportional amounts of each tank mix ingredient to a clear glass pint or quart jar with a lid cap it invert the jar several times, and let set 15 minutes. If the mixture balls-up forms flakes, sludges, jels oily films or layers or other precipitates that do not readily redisperse it is an incompatible mixture that must not be used.

Tank Mixing Precautions

- Read carefully and follow all applicable use directions precautions and limitations on the respective product labels
- Do not exceed specified application rates
 Do not tank mix with another pesticide product that contains
 the same active ingredient as this product unless the label of either tank mix partner specifies the
 maximum dosages that may be used

Uses

Apple Tree Trunk (Not for use in Mississippi)

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days unless PPE required for early entry is worn

Apply as a post-bloom application to the lower 4 feet of the apple tree trunk for borer control in states east of the Rockies only (except Mississippi) Mix with water and apply directly to trunk from a distance of no more than 4 feet using low volume handgun or shielded spray equipment. Do not allow spray to contact foliage or fruit

Target Pests	Lorsban 50W (lb/100 gal)
American plum borer	3
apple bark borer	
broad necked root borer	
dogwood borer	
flatheaded appletree borer	
roundheaded apple tree borer	
tilehorned prionus	

Specific Use Restrictions

- Preharvest Interval Do not apply within 28 days before harvest
- Do not make more than one application of Lorsban 50W to the apple tree trunk per year as either a prebloom or post-bloom application
- This product may not be used if a prebloom application of any other product containing chlorpyrifos has been made during the year
- Do not allow meat or dairy animals to graze in treated orchards
- Treat only the lower 4 feet of the apple tree trunk
- Do not apply when wind speed is greater than 10 mph

Brassica (Cole) Leafy Vegetables¹

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours (3 days for cauliflower) unless PPE required for early entry is worn

Foliar Application

Apply with conventional power-operated spray equipment in 20 to 150 gpa of water. For aerial applications apply in a minimum of 5 gpa of water. Control may be reduced at low spray volumes. Consult your state agricultural experiment station, extension service specialist, or integrated pest control advisor for proper time to treat in your area.

To avoid phytotoxicity do not treat plants under stress from extreme heat and/or lack of moisture. For best results, tank mix only if previous experience indiates that the combination will not result in phytotoxicity under the current conditions of use and the other pesticides and spray adjuvants are registered for this use. Read and carefully follow all applicable directions, restrictions, and precautions on other product labels used in combination with Lorsban 50W. Tank mixing with Thiodan 3EC. Thiodan 50WP or cottonseed oil is not recommended.

	Lorsban 50W
Target Pests	(lb/acre)

¹Brassica (cole) leafy vegetables including broccoli broccoli raab Brussels sprout cabbage cauliflower cavalo broccolo Chinese broccoli Chinese cabbage collards kale kohlrabi mizuna mustard greens mustard spinach rape greens

armyworms (including beet	2
armyworm)	
cabbage aphid	
cutworms	
diamondback moth (1)	
imported cabbage worm	
striped flea beetle (adult)	

Numbers in parentheses (-) refer to Pest-Specific Use Directions

Pest-Specific Use Directions

1 Diamondback moth Significant organophosphate insecticide resistance has been reported for diamondback moth populations in Texas Lorsban 50W will not control organosphosphate-resistant populations of diamondback moth Consult your local extension service for resistance management information

Specific Use Restrictions

- Preharvest Interval Do not apply within 21 days before harvest
- Do not make more than three applications of any product containing chlorpyrifos per crop
- Maximum single application rate is 1 lb ai chlorpyrifos (2 lb of Lorsban 50W) per acre
- Do not make a second application of Lorsban 50W or other product containing chlorpyrifos within 10 days of the first application
- Do not apply more than 3 lb ai chlorpyrifos (6 lb of Lorsban 50W) per acre per year
- Do not aerially apply this product in Mississippi

Christmas Trees (Nurseries and Plantations)

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn

Wholesale nursery operations are commercial agricultural operations which do not sell or distribute directly to consumers or the general public through retail sales. Trees or any parts of the trees treated with this product cannot be sold or distributed directly to consumers or the general public through retail sales

Unless otherwise indicated apply as a foliar spray using power-operated ground equipment at the dosages indicated to control pests listed in the following table in plantations and wholesale nursery operations only Thorough coverage of foliage is essential. Use a minimum 10 gpa of finished spray with ground equipment. Use higher volume of finished spray 20 gpa or more, when foliage is dense and/or pest density is high and/or under high temperature and wind conditions

Target Pests	Lorsban 50W	
adelgids (cooley) (eastern spruce gall) ants (4) aphids Douglas fir needle midge European pine sawfly European pine shoot moth grasshoppers gypsy moth mites (1) (European red spider) (two spotted spider)	pales weevil (adult) pine needle midge pine spittlebug plant bugs scale (2) (black pine) (pine needle) (pine tortoise) (spruce bud) (striped pine) spittlebugs spruce budworm spruce needleminer	2 lb/acre
pales weevil (3)		6 lb/100 gal

Numbers in parentheses (-) refer to Pest Specific Use Directions

Pest-Specific Use Directions

- 1 Spider mites When large numbers of eggs are present at the time of the first application a second application after 7 to 10 days may be required to control newly hatched nymphs and maintain effective control Not for control of mites in Washington and Oregon
- 2 Scale control Apply when scale crawlers are active
- 3 Pales weevil Apply as a cut stump drench Do not exceed 1 lb ai chlorpyrifos (2 lb of Lorsban 50W) per acre per application
- 4 Excludes ants of significant public health importance such as fire ants harvester ants carpenter ants and pharaoh ants

Specific Use Precautions

Phytotoxicity Do not apply under conditions of extreme heat or drought stress Environmental factors and varietal differences significantly influence potential phytotoxic expression. Testing has shown that Lorsban 50W may be used at specified rates on the following conifer species without serious phytotoxicity balsam fir, concolor fir, Douglas fir, eastern white pine, Fraser fir, grand fir, noble fir, Scotch pine, white spruce Before treating large numbers of other conifer species treat a small block of plants and observe them 7 to 10 days for symptoms of phytotoxicity Note The user assumes responsibility for determining if it is safe to treat other conifer species with Lorsban 50W under commercial growing conditions

Specific Use Restrictions

- Do not make more than three applications of Lorsban 50W or other product containing chlorpyrifos per season
- Do not make a second application of Lorsban 50W or other product containing chlorpyrifos within 7 days of the first application
- Do not allow meat or dairy animals to graze in treated areas

Citrus Fruits¹

(Not for use in Mississippi)

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 5 days unless PPE required for early entry is worn

¹Citrus fruits including calamondin chironja citrus citron citrus hybrids grapefruit kumquat lemon lime mandarın (tangerine) pummelo satsuma mandarın sour orange sweet orange tangelo tangor

Use Lorsban 50W to control the pests listed in the following table at the rates indicated Use a higher rate in the rate range when there is increased pest pressure. Treat when pests become a problem or in accordance with the local spray schedule as specified by your state agricultural experiment station certified pest control advisor or extension service specialist

Use of Spray Oils To improve control of aphids mealybugs scale isects and thrips a petroleum spray oil specified for use on citrus trees may be added to spray mixtures at up to 1 8 gallons per 100 gallons of spray

			Lorsban 50W
Target Pests	 		(lb/acre)

Ρ	а	q	е	2	•

aphids (including brown citrus	scale insects such as	2 7
aphid)	black scale	
grasshoppers (1)	brown soft scale	
katydids	California red scale (see	
lepidopterous larvae such as	below for California and	
avocado leafroller	Arizona)	
cutworms	chaff scale	
fruittree leafroller	Florida red scale	
orange dogs	long scale	
orange tortrix	purple scale	
western tussock moth	snow scale	
mealybugs (see below for	thrips (see below for California	
California and Arizona)	and Arizona)	
citrus rust mites (2) (Florida onl	4 7	
thrips suppression and mealybractions)	6 - 12	
California red scale (California	and Arizona see restrictions)	8 -12

Numbers in parentheses (-) refer to Pest-Specific Use Directions

Pest-Specific Use Directions

- 1 **Lubber grasshoppers** Effective control requires direct contact with spray when grasshoppers are small (less than 1 inch in length)
- 2 **Citrus rust mites** For control use a spray concentration of at least 1 lb of Lorsban 50W per 100 gallons

Specific Use Precautions

- Observe local recommendations for tank mix combinations especially with regard to use of Lorsban 50W with spray oil Consult with a county farm advisor county agency extension service personnel agricultural commissioner pest control advisor or local Dow AgroSciences representative for local recommendations
- Do not apply when trees are stressed by drought or high temperatures
- Lorsban 50W is highly toxic to bees exposed to direct treatment and must not be applied when bees are actively visiting the area. During the citrus bloom period in California apply from 1 hour after sunset until 2 hours before sunrise.
- Do not use Lorsban 50W in combination with spray oil when temperatures are expected to exceed 95°F on the day of application or for several consecutive days thereafter. Do not apply during the months of December. January or February

Specific Use Restrictions

- Preharvest Interval Do not apply within 21 days before harvest for applications of up to 7 lb of Lorsban 50W per acre or within 35 days for application of rates above 7 lb per acre
- Do not apply more than a total of 7 5 lb ai chlorpyrifos (15 lb of Lorsban 50W) per acre per year
- Do not make more than two applications of Lorsban 50W or other products containing chlorpyrifos per year (does not include citrus orchard floors)
- Do not make a second foliar application of Lorsban 50W or other product containing chlorpyrifos within 30 days of the first application
- The use of application rates greater than 6 lb ai chlorpyrifos (12 lb of Lorsban 50W) per acre are allowed only in the following counties in California Fresno Tulare Kern Kings and Madera
- Do not allow meat or dairy animals to graze in treated areas

Pecan Orchard Floors

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn

Apply as a ground broadcast spray directed to the orchard floor using ground application equipment that will apply the spray uniformly. Do not allow spray to contact foliage or fruit. Treat when ant activity (excluding fire harvester carpenter and pharaoh ants) becomes evident in the orchard. Since worker ants (excluding fire harvester carpenter and pharaoh ants) cease most of their foraging activity at temperatures above 90°F best results will be achieved if applied at a time of day when temperatures are below 90°F.

	Lorsban 50W
Target Pests	(lb/acre)
ants (1)	2

Numbers in parentheses (-) refer to Pest-Specific Use Directions

Pest-Specific Use Directions

Excludes ants of significant public health importance such as fire ants harvester ants carpenter ants and pharaoh ants

Eliminate weed growth that would prevent uniform coverage of the orchard floor by mowing or herbicide treatment. Foliar applications of Lorsban 50W may be made in addition to the orchard floor treatment.

Specific Use Precautions

 To avoid contamination of irrigation tail waters do not flood irrigate within 24 hours of application of Lorsban 50W

Specific Use Restrictions

- Preharvest Interval Do not apply within 28 days before harvest
- Do not make more than two applications of Lorsban 50W or other product containing chlorpyrifos per season to the orchard floor
- Do not apply more than 6 lb ai chlorpyrifos (12 lb of Lorsban 50W) per acre per season to pecan orchard floors
- Maximum single application rate is 1 lb ai chlorpyrifos (2 lb of Lorsban 50W) per acre
- Do not make a second application of Lorsban 50W or other product containing chlorpyrifos within 10 days of the first application
- Do not allow meat or dairy animals to graze in treated orchards

Tree Fruits¹ and Almond (Dormant/Delayed Dormant Sprays)

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days for tree fruits and 24 hours for almond unless PPE required for early entry is worn

Apply as a dormant or delayed dormant spray Apply as a concentrate or dilute spray using conventional power operated spray equipment. For dilute sprays (greater than 200 gpa) use sufficient spray volume to completely wet tree foliage, but not to point of runoff. For concentrate sprays (less than 200 gpa) uniformly apply an equivalent amount of Lorsban 50W per acre.

Use Precautions for Tree Fruits and Almond

- Cold or dry conditions may cause Lorsban 50W plus oil sprays to infuse into trees resulting in bud damage or bud drop Do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not dessiccated
- To avoid cntamination of irrigation tail waters do not flood irrigate within 24 hours of application of Lorsban 50W

Use Restrictions for Tree Fruits and Almond

¹Apple cherry nectarine peach pear plum prune

Make only one application of chlorpyrifos during the dormant season

For apple do not make more than one application of Lorsban 50W to the apple tree trunk per year as either a prebloom or post-bloom application

Do not use more than a total of 2 lb ai chlorpyrifos (4 lb of Lorsban 50W) per acre per season as a dormant/delayed dormant application

Do not allow meat or dairy animals to graze in treated orchards

Almond

Lorsban 50W performs best in an almond pest control program that includes winter sanitation (removal of mummy nuts) and regular monitoring of target pests. Complete coverage of the entire bark area is essential. If scale infestations are severe apply as a dilute spray to ensure complete coverage.

Consult your state agricultural experiment station certified pest control advisor or extension service specialist for specific use information in your area

Target Pests	Lorsban 50W (lb/acre)
navel orangeworm	4
peach twig borer	
San Jose scale	

Specific Use Restrictions for Almond

Do not make a soil or foliar application of Lorsban 50W or other product containing chlorpyrifos within 10 days of a dormant/delayed dormant application of chlorpyrifos to the orchard

Apple

Target Pests	Lorsban 50W (lb/acre)
climbing cutworms	3
dogwood borer (trunk spray)	
obliquebanded leafroller	
pandemis leafroller	
rosy apple aphid	
San Jose scale	

Specific Use Restrictions for Apple

Only one application of any chlorpyrifos containing product can be made per year. The application can
be either a prebloom dormant/delayed dormant spray to the canopy or the trunk or a post-bloom
application to the lower 4 feet of the trunk (for post bloom application instructions and restrictions on
apple refer to Apple Tree Trunk section of the label)

Tree Nuts¹ and Sour Cherry (Foliar Sprays)

Worker Restricted Entry Interval Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days for sour cherry and 24 hours for tree nuts unless PPE required for early entry is worn

Apply Lorsban 50W as a foliar spray at the dosages indicated to control pests listed in the following table Mix the required dosage in sufficient water to ensure thorough and complete coverage of the foliage and crop and apply as a concentrate or dilute spray using conventional power-operated spray equipment For dilute sprays applied to tree nut crops mix the required dosage in sufficient water to allow for spray to

¹Almond filbert pecan walnut

runoff For concentrate sprays apply an equivalent amount of Lorsban 50W per acre Treat when pests appear or in accordance with local conditions. Aerial application may result in less effective insect control because of reduced coverage. Consult your State agricultural experiment station, certified Pest control advisor, or Extension service specialist for specific use information in your area.

Crop	Tar	Lorsban 50W	
almond	navel orangeworm peach twig borer	San Jose scale	4 lb/acre
cherry (sour)	borers such as American plum lesser peachtree Pacific flatheaded peach twig peachtree shothole climbing cutworm eyespotted bud moth green fruitworm	leafrollers such as fruittree obliquebanded pandemis redbanded lesser appleworm mineola moth scales such as European fruit lecanium San Jose stink bug	2 – 3 lb/acre
	black cherry aphid cherry fruit fly	plum curculio rose chafer	2 lb/acre
filbert	eye spotted bud moth filbert aphid filbert leafroller filbertworm	obliquebanded leafroller omnivorous leaftier winter moth	3 – 4 lb/acre
pecan	black pecan aphid hickory shuckworm	pecan leaf scorch mite (1) (suppression)	2 lb/100 gal
	fall webworm pecan nut casebearer	Phylloxera spp (2) spittlebug	1 lb/100 gal
walnut	codling moth walnut husk fly	walnut scale	4 lb/acre

Numbers in parentheses (-) refer to Pest Specific Use Directions

Pest-Specific Use Directions

- 1 Pecan leaf scorch mite For suppression use a preventative program
- 2 **Phylloxera** spp For best control make two applications at 7 to 10-day intervals starting at bud swell and ending by early leaf expansion

Specific Use Precautions

- Lorsban 50W is highly toxic to bees exposed to direct treatment and should not be applied when bees are actively foraging in the treated area
- To avoid contamination of irrigation tail waters do not flood irrigate within 24 hours of application of Lorsban 50W

Specific Use Restrictions

Crop	Preharvest Interval (Days)	Total Number of Sprays	Maximum Single Application Rate (lb ai/acre)	Total Amount Chlorpyrifos per Season (lb ai/acre)	Total Amount Lorsban 50W per Season (lb/acre)
almond	14	3	2	6	12
filbert	14	2	2	4	8
pecan	28	3	1	6	12
sour cherry	14	8	1 5	12	24
walnut	14	2	2	4	8

- Do not make a second application of Lorsban 50W or other product containing chlorpyrifos within 10 days of the first application
- Do not allow meat or dairy animals to graze in treated orchards
- Do not use on almond filbert or walnut in Mississippi
- Do not aerially apply this product in Mississippi
- Do not use as a foliar spray on sweet cherries

Terms and Conditions of Use

If terms of the following Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies are not acceptable return unopened package at once to the seller for a full refund of purchase price paid Otherwise use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer Inherent Risks of Use and Limitations of Remedies

Warranty Disclaimer

To the extent permitted by law Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.) abnormal conditions (such as excessive rainfall, drought tornadoes, hurricanes) presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

To the extent permitted by law the exclusive remedy for losses or damages resulting from this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to at Dow AgroSciences election one of the following

- (1) Refund of purchase price paid by buyer or user for product bought or
- (2) Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses

The terms of the Warranty Disclaimer Inherent Risks of Use and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

[®] ™Trademark of	Do	W	AgroSciences	LLC
EPA accepted		1		



[Sub Label B: Non-Ag Uses]

Box label:

Lorsban® 50W in Water Soluble Packets

Insecticide

For use in commercial seed treating operations only as a preplant slurry treatment of bean, corn, cucumber and pumpkin seeds to protect germinating seeds and seedlings from injury by seed corn maggots and seed corn beetles and to protect stored seeds from injury by stored product insects.

Active Ingredient:	
chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-	
2 pyridinyl) phosphorothioate	50%
Other Ingredients.	50%
Total	1009

Keep Out of Reach of Children

DANGER PELIGRO

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

Refer to inside of label booklet for additional precautionary information including Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-221

Trademark of Dow AgroSciences LLC
Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

EPA Est.

Net Weight __ x __ x 1 lb

Overpack label:

Lorsban® 50W in Water Soluble Packets

Insecticide

For use in commercial seed treating operations only as a preplant slurry treatment of bean, corn, cucumber and pumpkin seeds to protect germinating seeds and seedlings from injury by seed corn maggots and seed corn beetles and to protect stored seeds from injury by stored product insects.

The contents of this package are not for individual resale. This product is not for residential use.

Active Ingredient:

Keep Out of Reach of Children

DANGER PELIGRO

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed

Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Work to windward to stay out of spray drift or mist. Keep away from food, feedstuffs, and water supplies.

Personal Protective Equipment (PPE)

Materials that are chemical-resistant to this product are barrier laminate and viton.

Mixers and loaders must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves
- · Shoes plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant apron

See Engineering Controls for additional requirements.

All other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- · Chemical-resistant apron when mixing or loading
- · Chemical-resistant footwear plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant headgear for overhead exposure

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 A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter

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

Engineering Controls

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders, and have immediately available for use in emergency (such as a broken package, spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter.

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

Organophosphate

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

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 person.

Note to physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is

damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide. spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-221

EPA Est.

®Trademark of Dow AgroSciences LLC Produced for **Dow AgroSciences LLC** 9330 Zionsville Road Indianapolis, IN 46268

Net Weight XX x 1 lb water soluble pouches

Bulk base label

Lorsban® 50W in Water Soluble Packets

Insecticide

For use in commercial seed treating operations only as a preplant slurry treatment of bean, corn, cucumber and pumpkin seeds to protect germinating seeds and seedlings from injury by seed corn maggots and seed corn beetles and to protect stored seeds from injury by stored product insects

Active Ingredient

chlorpyrifos O O-diethyl O-(3 5 6-trichloro-

2 pyridinyl) phosphorothioate

50%

Other Ingredients

50%

Total

100%

Keep Out of Reach of Children

DANGER PELIGRO

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Precautionary Statements

Hazards to Humans and Domestic Animals

Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed

Do not get in eyes or on clothing Wear protective eyewear (goggles or face shield) Work to windward to stay out of spray drift or mist. Keep away from food, feedstuffs, and water supplies

Personal Protective Equipment (PPE)

Materials that are chemical resistant to this product are barrier laminate and viton

Mixers and loaders must wear

Long sleeved shirt and long pants

Chemical-resistant gloves

Shoes plus socks

Protective eyewear (goggles or face shield)

Chemical resistant apron

See Engineering Controls for additional requirements

All other handlers must wear

Coveralls over long-sleeved shirt and long pants

Chemical-resistant gloves

Chemical-resistant apron when mixing or loading

Chemical-resistant footwear plus socks

Protective eyewear (goggles or face shield)

· Chemical-resistant headgear for overhead exposure

A NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC 21C or a NIOSH-approved respirator with any R P or HE filter

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

Engineering Controls

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R. P. or HE filter.

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

Organophosphate

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

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 person.

Note to physician Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine only by injection is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Note to physician. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800 992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is toxic to fish aquatic invertebrates small mammals and birds. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

(Storage and Disposal for refillable rigid containers greater than 5 gal)

Storage and Disposal

Do not contaminate water food or feed by storage and disposal

Pesticide Storage Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance.

Container Handling Refillable container Refill this container with pesticide 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 a mix tank. Fill the container about 10% full with water and if possible spray all sides while adding water. If practical agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)

Storage and Disposal

Do not contaminate water food or feed by storage and disposal

Pesticide Storage Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance

Container Handling Nonrefillable container Do not reuse or refill this container Offer for recycling if available

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. **Pressure rinse** as follows. Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refer to label booklet for Directions for Use

Notice Read the entire label Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product call 1-800-992 5994

Agricultural Chemical Do not ship or store with food feeds drugs or clothing

EPA Reg No 62719 221	EPA Est

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[Editor's Note The net weight of the bulk label must be more than 25 lb The specific amount will be filled in at the time of production]

WSP label

Lorsban® 50W in Water Soluble Packets

Insecticide

This bag [container] is not for individual resale. This product is not for residential use

Active Ingredient
chlorpyrifos O O-diethyl O-(3 5 6-trichloro2 pyridinyl) phosphorothioate

Other Ingredients

Total

50%

Keep Out of Reach of Children

DANGER PELIGRO

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

Refer to label booklet for Directions for Use

EPA Reg No 62719-221

£abel booklet cover

Lorsban® 50W in Water Soluble Packets

Insecticide

For use in commercial seed treating operations only as a preplant slurry treatment of bean, corn, cucumber and pumpkin seeds to protect germinating seeds and seedlings from injury by seed corn maggots and seed corn beetles and to protect stored seeds from injury by stored product insects

Active Ingredient chlorpyrifos O O-diethyl O-(3 5 6 trichloro-2 pyridinyl) phosphorothioate 50% Other Ingredients 50% Total 100%

Keep Out of Reach of Children DANGER **PELIGRO**

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

Refer to inside of label booklet for additional precautionary information including Directions for Use

Notice Read the entire label Use only according to label directions Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened

In case of emergency endangering health or the environment involving this product call 1 800 992 5994

Agricultural Chemical Do not ship or store with food feeds drugs or clothing

EPA Est _____

Trademark of Dow AgroSciences LLC Produced for **Dow AgroSciences LLC** 9330 Zionsville Road Indianapolis, IN 46268

EPA Reg No 62719-221

Net	Weight	

[Editor's Note The specific amount will be filled in at the time of production depending upon whether the product is in water soluble packets or a bulk container]

(Page 1 through end)

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed

Do not get in eyes or on clothing Wear protective eyewear (goggles or face shield) Work to windward to stay out of spray drift or mist. Keep away from food, feedstuffs, and water supplies

Personal Protective Equipment (PPE)

Materials that are chemical-resistant to this product are barrier laminate and viton

Mixers and loaders must wear

Long sleeved shirt and long pants

Chemical resistant gloves

Shoes plus socks

Protective eyewear (goggles or face shield)

Chemical-resistant apron

See Engineering Controls for additional requirements

All other handlers must wear

Coveralls over long-sleeved shirt and long pants

Chemical-resistant gloves

Chemical resistant apron when mixing or loading

Chemical-resistant footwear plus socks

Protective eyewear (goggles or face shield)

Chemical resistant headgear for overhead exposure

A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R P or HE filter

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

Engineering Controls

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package spill or equipment breakdown) additional PPE These PPE include coveralls and chemical-resistant footwear and a NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any R P or HE filter

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

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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

Organophosphate

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

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 person.

Note to physician Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine only by injection is the preferable antidote. Oximes, such as 2 PAM/protopam, may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Note to physician. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800 992-5994 for emergency medical treatment information

Environmental Hazards

This pesticide is toxic to fish aquatic invertebrates small mammals and birds. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling Read all Directions for Use carefully before applying

Not for on-farm use Not for use on agricultural establishments in hopper box, planter-box, slurry-box, or other seed treatment applications at or immediately before planting

Storage and Disposal

Do not contaminate water food or feed by storage and disposal. Open dumping is prohibited **Pesticide Storage**. Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance

Nonrefillable nonrigid containers

Container Handling Nonrefillable container Do not reuse or refill this container Offer for recycling if available

Refillable rigid containers larger than 5 gal

Container Handling Refillable container Refill this container with pesticide 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 a mix tank. Fill the container about 10% full with water and if possible spray all sides while adding water. If practical agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

Nonrefillable rigid containers larger than 5 gal

Container Handling Nonrefillable container Do not reuse or refill this container Triple rinse or pressure rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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 Pressure rinse as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds Drain for 10 seconds after the flow begins to drip Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

Commercial Seed Treatment

Lorsban® 50W in Water Soluble Packets insecticide is designed as a preplant slurry seed treatment prior to planting to protect the germinating seeds and seedlings. Treated seed may be stored for up to 14 months without loss of insecticidal effectiveness

Disperse the required amount of Lorsban 50W in sufficient water to give an applied slurry rate of 8 to 12 fl oz per 100 lb of seed to be treated The slurry rate for sweet corn is 20 to 40 fl oz per 100 lb of seed Apply using standard slurry equipment by mixing the slurry with the seed using a rotating blender or other suitable mixing equipment that will ensure each seed is uniformly coated. Uniform application to seed is necessary to ensure seed safety and best insect control

Target Pests	Seeds	Lorsban 50W (oz/100 lb of seed)
seed-corn beetles	black-eyed pea	2
seed-corn maggots	cucumber	
	field bean	(1 1-lb packet per
	field corn	mınımum 800 lb
	field pea	seed)
	garden pea	
	green bean	
	kidney bean	
	lima bean	
	navy bean	
	pumpkin	İ
	snap bean	
	string bean	
	sweet corn	
	wax bean	

Specific Use Precautions

- Seed should be sound and well cured prior to treatment
- Exposed treated seeds may be hazardous to birds and other wildlife
 Dispose of all excess treated seeds and seed packaging by burial away from bodies of water

Specific Use Restrictions

- Not for on-farm use
- Not for use on agricultural establishments in hopper box planter-box slurry-box or other seed treatment applications at or immediately before planting
- Do not use treated seed for human consumption as feed for livestock or poultry or for oil purposes
- Do not allow meat or dairy animals to graze or feed bean hay or pea hay grown from treated seed
- Do not mix the seed and product with bare hands
- Label treated seed as follows THIS SEED HAS BEEN TREATED WITH CHLORPYRIFOS DO NOT USE FOR FOOD FEED OR OIL STORE AWAY FROM FOOD AND FOODSTUFF
- Make only one application of chlorpyrifos
- The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals Refer to 21 CFR Part 2 25 Any dye added to treated seed must be cleared for use under 40 CFR Part 180 1001

Terms and Conditions of Use

If terms of the following Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies are not acceptable return unopened package at once to the seller for a full refund of purchase price paid Otherwise use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer Inherent Risks of Use and Limitations of Remedies

Warranty Disclaimer

To the extent permitted by law Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions subject to the inherent risks set forth below TO THE EXTENT PERMITTED BY LAW Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.) abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes) presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

To the extent permitted by law the exclusive remedy for losses or damages resulting from this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to at Dow AgroSciences' election one of the following

- (1) Refund of purchase price paid by buyer or user for product bought or
- (2) Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses

A1A / Lorsban 50W in Water S Je Packets / MSTR Amend / 05-15-12

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