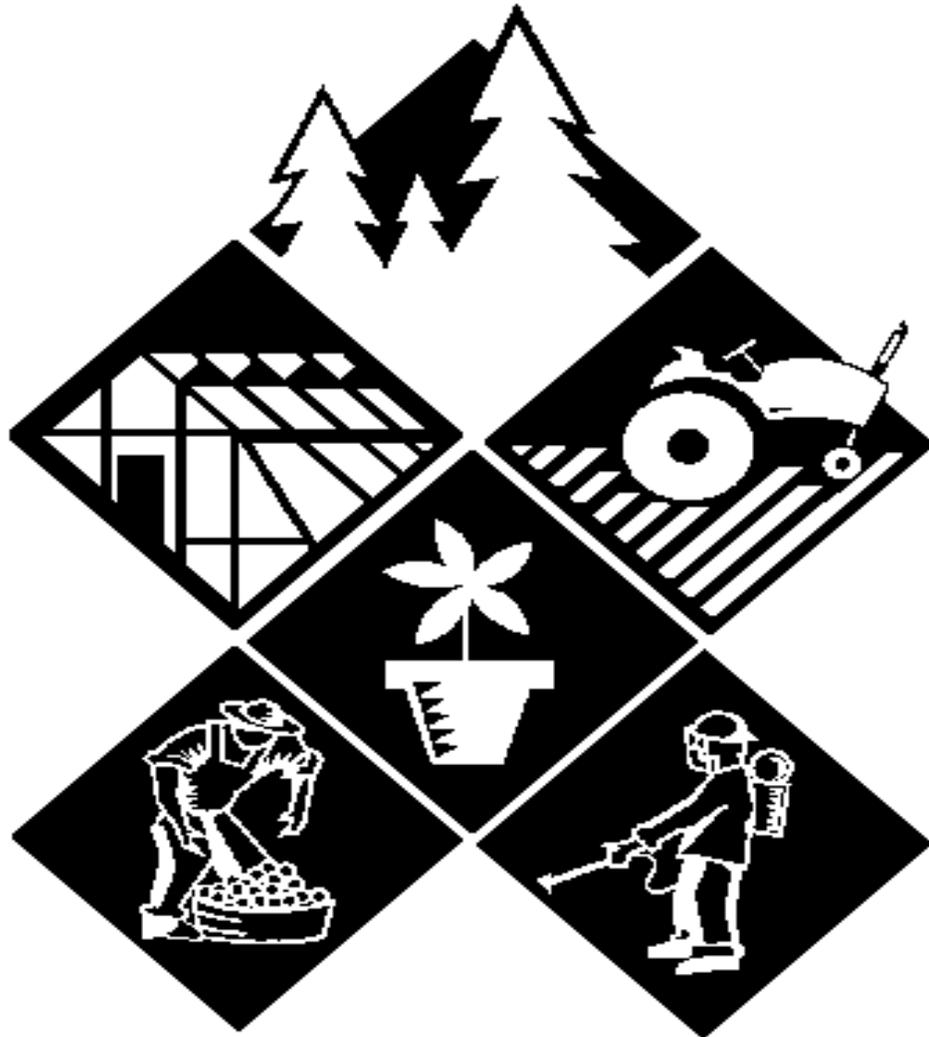


# ***WORKER PROTECTION STANDARD***



Presented by the Public Education Section  
Oregon OSHA  
Department of Consumer and Business Services



## **Oregon OSHA Public Education Mission:**

We provide knowledge and tools to advance self-sufficiency in workplace safety and health

### **Consultative Services:**

- Offers no-cost on-site assistance to help Oregon employers recognize and correct safety and health problems

### **Enforcement:**

- Inspects places of employment for occupational safety and health rule violations and investigates complaints and accidents

### **Public Education and Conferences:**

- Presents educational opportunities to employers and employees on a variety of safety and health topics throughout the state

### **Standards and Technical Resources:**

- Develops, interprets, and provides technical advice on safety and health standards
- Publishes booklets, pamphlets, and other materials to assist in the implementation of safety and health rules

**Questions?  
Call us**



### **Field Offices:**

Portland	503-229-5910
Salem	503-378-3274
Eugene	541-686-7562
Medford	541-776-6030
Bend	541-388-6066
Pendleton	541-276-2353

### **Salem Central Office:**

Toll Free number in English: 800-922-2689  
Toll Free number in Spanish: 800-843-8086  
Web site: [www.orosha.org](http://www.orosha.org)

# **Welcome**

# **WPS**

## **PURPOSE**

**The purpose of this workshop is to provide an introduction to the Worker Protection Standard.**

**To get the most out of this workshop, please participate fully in all the activities. We hope you have fun and learn something of value.**

## **GOAL**

**At the end of this workshop you will be able to:**

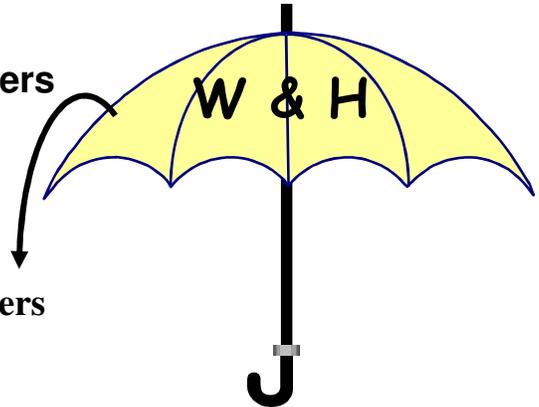
- 1. Identify the requirements of the WPS**
- 2. Differentiate between the OR-OSHA and WPS rules**
- 3. Identify the components of an effective training team**
- 4. Identify the 8 label elements of the WPS**

Notice: This safety program is intended to provide general information and guidance. It does not replace OR-OSHA standards or established organization policies and practices. Rather, its purpose is to enhance them.

# Quick Reference Guide to the Worker Protection Standard (WPS)

## Requirements For *Both* Workers and Handlers

- ◆ Information at a Central Location
- ◆ Pesticide Safety Training
- ◆ Decontamination Sites
- ◆ Notice of Applications to Handler Employers
- ◆ Emergency Assistance



## Requirements for *Workers*

- ◆ Restrictions During Applications
- ◆ Restricted-Entry Intervals (REIs)
- ◆ Posted Warning Signs
- ◆ Oral Warnings



## Additional Requirements for *Handlers*

- ◆ Application Restrictions and Monitoring
- ◆ Specific Instructions for Handlers
- ◆ Equipment Safety
- ◆ Personal Protective Equipment
  - Duties Related to PPE
  - Care of PPE
  - Replacing Respirator Purifying Elements
  - Disposal of PPE
  - Instructions for People Who Clean PPE

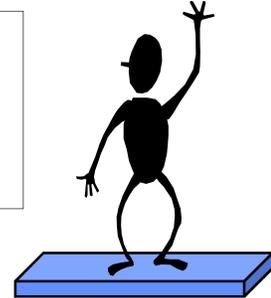


# Special Note

**Agricultural employers with 10 or fewer employees are exempt from routine inspections if they meet the following criteria (Oregon Revised Statute ORS 654.172 and Oregon Administrative Rule OAR 437-001-0057):**

- **No accidents resulting in death or serious disabling injury occur within the preceding two-year period.**
- **The agricultural place of employment is inspected once every four years by an individual acting in a safety consultant capacity and the employer has corrected the violations noted by the consultant within 90 days of receipt of the consultant's report.**
- **The employer and principal supervisors annually attend four hours of instruction on agricultural safety rules and procedures.**

**Please remember that the above exemption doesn't hold for a field sanitation inspection, a labor camp inspection, a fatality, catastrophe or accident investigation, or a valid complaint inspection.**



**The certificate confirms that you attended four hours of safety instruction.**

**All OR-OSHA workshops meet the training requirement!**



# ***Introduction***

# WPS

**In Oregon, the Occupational Safety and Health Division (Oregon-OSHA) administrates occupational safety and health related laws.**

**OR-OSHA's activities include enforcement of the Worker Protection Standard and other applicable pesticide safety and health rules such as Hazard Communication, Personal Protective Equipment, Respiratory Protection, and Ventilation.**

**You are welcome to your free copy of the agricultural occupational safety and health rule by calling any of the telephone numbers listed on the inside of this workbook's front cover and requesting a copy of Division 4 in hard copy, CD-ROM, or by visiting our Web site: [www.orosha.org](http://www.orosha.org)**

## ***Does WPS apply to you?***

# WPS

***Yes***

**If you employ WORKERS or HANDLERS and pesticides (herbicides, insecticides, fungicides, miticides, etc.) have been applied OR a restricted-entry interval has been in effect within the last 30 days.**



**If you apply either restricted or non restricted-use pesticides.**

**If you apply either restricted or non restricted-use pesticides in the following circumstances:**

**If you employ WORKERS to perform hand-labor on a farm, nursery, greenhouse, or forest.**

**If you employ pesticide HANDLERS on a farm, nursery, greenhouse, or forest.**



***WPS  
does not  
apply to fertilizers***



## ***Does WPS apply to you?***

# WPS

***NO***

**If you apply either restricted or non restricted-use pesticides in the following circumstances:**

**For mosquito abatement, or similar wide-area public pest control programs sponsored by government agencies.**

**On livestock or other animals.**

**On plants grown for other than commercial or research purposes such as in habitations, and home fruit and vegetable gardens.**

**On plants, that are in ornamental gardens, parks, and public or private lawns and golf courses.**

**By injection directly into agricultural plants. Direct injection does not include “hack and squirt,” chemigation, soil incorporation, or soil-injection.**

**For structural pest control, rights-of-way vegetation control, and other noncrop areas, pastures and rangeland.**

**For control of vertebrate pests.**

**As attractants or repellents in traps.**

**On the harvested portions of agricultural plants or on harvested timber.**

# Definitions

# WPS

## Hand labor

Any agricultural activity performed by hand or with hand tools that causes a WORKER to have substantial contact with surfaces (such as plants, plant parts, or soil) that may contain pesticide residues.

These activities include, but are not limited to, harvesting, thinning, weeding, tipping, planting, pruning, and packing produce into containers in the field.

Hand labor **does not** include operating, moving, or repairing irrigation or watering equipment or performing the tasks of crop advisors.



# Definitions

# WPS

## Handler

Any person, including a self-employed person who is:

- Mixing, loading, transferring, or applying pesticides.
- Disposing of pesticides or pesticide containers.
- Handling opened containers of pesticides.
- Acting as a flagger.
- Cleaning, adjusting, handling, or repairing the parts of mixing, loading, or application equipment that may contain pesticide residues.
- Assisting with the application of pesticides.
- Entering a greenhouse or other enclosed area after the application and before the inhalation exposure level listed in the labeling has been reached or one of the ventilation criteria established by this standard or in the labeling has been met:
  - ◆ To operate ventilation equipment.
  - ◆ To adjust or remove coverings used in fumigation.
  - ◆ To monitor air levels.
- Entering treated area outdoors after application of any soil fumigant to adjust or remove soil coverings such as tarpaulins.

Does not include handling pesticide containers that have been emptied or cleaned according to pesticide product labeling instructions or in absence of instructions, have been triple-rinsed or its equivalent.





# WPS

## Protection For Both Workers and Handlers

### Information at a Central Location

- ◆ In an easily seen central location on each agricultural establishment, display close together:
  - ✓ Pesticide safety poster.
  - ✓ Name, address, and telephone number of the nearest emergency, medical facility or 911 if used.
  - ✓ These facts about each pesticide application [from BEFORE each application begins until 30 days AFTER the restricted-entry interval REI]:
    - ✓ Product name, EPA registration number, and active ingredient(s).
    - ✓ Location and description of treated area.
    - ✓ Time and date of application, and REI.
- ◆ Tell workers and handlers where the information is posted, and allow them access.
- ◆ Tell them if emergency facility information changes and update the posted information.
- ◆ Keep the posted information legible.



APPLICATION LIST					
Location Description	Product Name	Registration Number	Active Ingredient	Time/Date Application	REI (HOURS TO RE-ENTRY)
St. Paul Field	Phorate	9779-293	Phorate (D.O. Datox) (Datox) (Datox) (Datox)	July 18 6:30 AM	July 20 9:30 AM
Dayton Vineyard	Guthion	3125-301	D.O. Datox (Datox) (Datox) (Datox)	August 2 7:20 AM	August 24 10:20 AM
Wilsonville Nursery	Temik	264-330	Datox (Datox) (Datox) (Datox)	August 11 10:20 AM	August 13 1:20 PM



# WPS

## Protection For Both Workers and Handlers

### *Pesticide Safety Training*

- ◆ Unless handlers possess a certified applicator's license, train handlers and workers before they perform pesticide handling tasks and at least once every 5 years:
  - ✓ Use written and/or audiovisual materials.
  - ✓ Use EPA WPS handler training materials for training handlers.
  - ✓ Use EPA WPS worker training materials for training workers.
  - ✓ Conduct the training orally and/or audiovisually in a manner the employees can understand, using easily understood terms, and respond to questions.

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### **When to train:**

Train ALL workers BEFORE the 6th day.

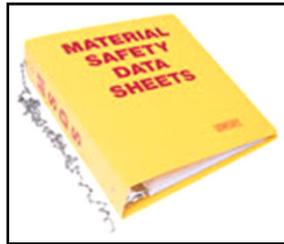
Prior to entry to the fields, train workers on the basic elements as covered in the brochure: "Safe Practices When Working Around Hazardous Agricultural Chemicals."

Handlers: Need Hazard Communication in addition to WPS.



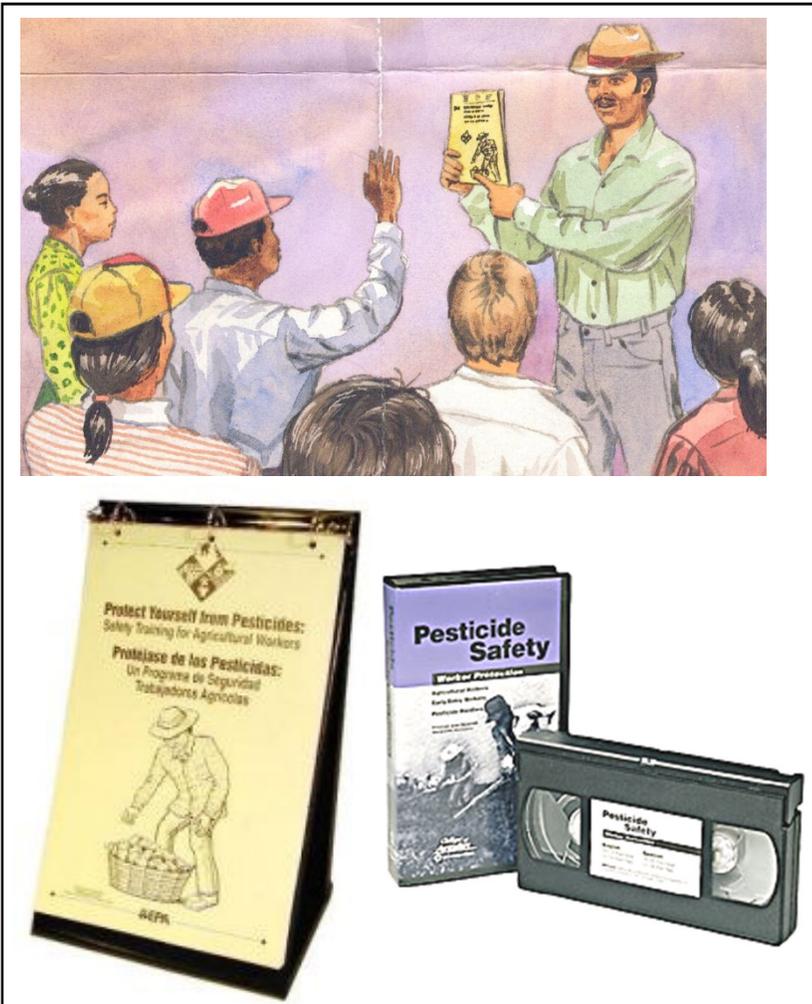
If someone is a Certified Applicator, they must still be trained on Hazard Communication !

# Training Difference Between The Hazard Communication Rule and The Worker Protection Standard for Workers



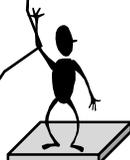
Hazard Communication training for Workers.

Hazard Communication must be completed **before** workers enter fields.



Worker Protection Standard for Workers.

WPS training must be completed **before 6th day** workers enter fields.





# WPS

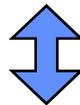
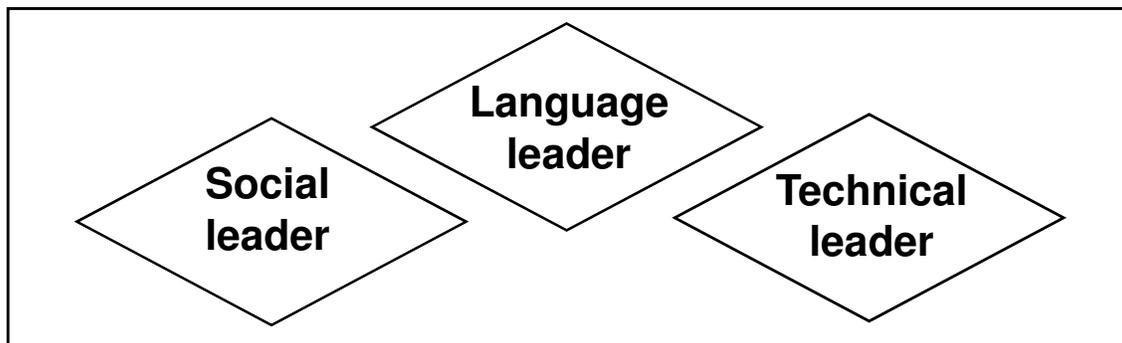
## Training Limited English-Speaking Workers

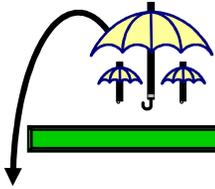
**LANGUAGE LEADER** The person with the best English communication skills

**SOCIAL LEADER** The person the group sees as their leader; the person they trust the most

**TECHNICAL LEADER** The person with the best job and safety related knowledge and skills

*Train with a team !*





## Training Resources and Materials

### ***Agriculture Division 4 (OR-OSHA Rule)***

The OR-OSHA Code for Agriculture. In paper or CD-ROM. (Free from OR-OSHA)

### ***Pesticide Safety - Worker Protection II (Video)***

Produced by the University of Idaho. The video contains both English and Spanish version of training for agricultural workers and pesticide handlers. OR-OSHA VIDEO NUMBER 323 (**Borrow from OR-OSHA, Obtain from EPA, or Purchase from University of Idaho or GEMPLER'S**).

### ***How to Conduct Worker Protection Training/Train-the-Trainer (Video)***

Condensed version of the December 16, 1993, AGSAT broadcast of the Train-the-Trainer, EPA approved course for the Worker Protection Standard. OR-OSHA VIDEO NUMBER 352 (**Borrow from OR-OSHA**).

***Protect Yourself from Pesticides - Safety Training for Agricultural Workers. (Flip Chart)*** The flip chart used for worker training - bilingual, English and Spanish. (**Obtain from EPA, or Purchase from GEMPLER'S**).

### ***Worker Protection Standard Poster***

Required poster in all workplaces covered by the WPS. (**Obtain from EPA, or Purchase from GEMPLER'S**).

#### **University of Idaho**

208-885-7982  
1-888-884-3246  
1997 #846  
Order# 7034  
Catalog: <http://www.extension.uidaho.edu/catalog.asp>

#### **Oregon OSHA**

(503) 378-3272  
1-800-922-2689  
Resource Center  
350 Winter St. NE  
Salem, OR 97310  
[www.orosha.org](http://www.orosha.org)

#### **Environmental Protection Agency (EPA)**

1-888-663-2155  
<http://www.epa.gov/oppfead1/Publications/catalog/subpage7.htm>  
<http://www.epa.gov/oecaagct/contact.html>

#### **GEMPLER'S**

1-800-382-8473  
[www.gemplers.com](http://www.gemplers.com)



# WPS

## Protection For Both Workers and Handlers

### ***Decontamination Sites***

- ◆ Establish a decontamination site within 1/4 mile of all workers and handlers (similar to the Field Sanitation Rule). Supply:
  - ✓ Enough water for routine and emergency whole-body washing and for eye flushing.
  - ✓ Plenty of soap and single-use towels.
  - ✓ A clean coverall for handlers.
- ◆ Provide water that is safe and cool enough for washing, for eye flushing, and for drinking. Do not use tank-stored water that is also used for mixing pesticides unless they have working back-flow devices.
- ◆ Provide handlers the same decontamination supplies at the location where personal protective equipment (PPE) is removed at the end of a task.
- ◆ Provide the same supplies at each mixing and loading site.
- ◆ Make at least 1 pint eye flush water immediately accessible to each handler.
- ◆ Do not put worker decontamination sites in areas being treated or currently under an REI. If the decontamination supplies must be in the treated area because of travel distance, place the supplies in a closed container that is washable.



“Tupperware” type container works well because you can easily wash it off before opening.



WPS

## Protection For Both Workers and Handlers

### *Notice of Applications by Handler Employers*

- ◆ Before any application, commercial handlers hired by a grower must make sure the operator of the agricultural establishment where a pesticide will be applied is aware of:
  - ✓ Location and description of area to be treated.
  - ✓ Time and date of application.
  - ✓ Product name, EPA registration number, active ingredient(s), and REI.
  - ✓ Whether the product label requires both oral warnings and treated area posting.
  - ✓ All other safety requirements on labeling for workers or other people.
- ◆ Operators of agricultural establishments must make sure any commercial pesticide operator they hire is aware of:
  - ✓ Specific location and description of all areas on the agricultural establishment where pesticides will be applied or where an REI will be in effect while the commercial handler is on the establishment.
  - ✓ Restrictions on entering those areas.



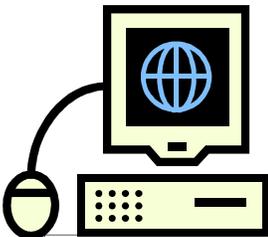
# WPS

## Protection For Both Workers and Handlers

### Emergency Assistance

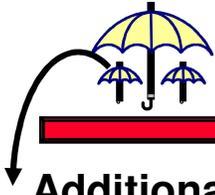


- ◆ When any handler or worker may have been poisoned or injured by pesticides, employers must:
  - ✓ Promptly make transportation available to an appropriate medical facility.
  - ✓ Promptly provide to the victim and to medical personnel:
    - ✓ Product name, EPA registration number, active ingredient(s).
    - ✓ All first aid and medical information from label.
    - ✓ Description of how the pesticide was used.
    - ✓ Information about victim's exposure.
    - ✓ Although not an element of WPS, this is the perfect place to include the Material Safety Data Sheet (MSDS) required by the Hazard Communication Rule and the Pesticide Label.



**LABELS AND MSDSs on the WEB:** A very good website for pesticide labels and MSDSs is Crop Data Management Systems. CDMS, Inc. is a privately held corporation located in Marysville, CA. Founded in 1983, the company provides software service to access crop protection product label, MSDS, WPS and DOT information.

<http://www.cdms.net/manuf/manuf.asp>



WPS

## Additional Protection for Workers

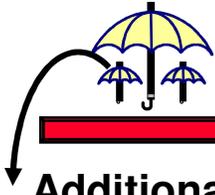
### *Restrictions During Applications*

- ◆ In areas being treated with pesticides, allow entry only to appropriately trained and equipped handlers.
- ◆ In nursery settings, keep workers at least 25-100 feet away from nursery areas being treated, depending on treatment method.
- ◆ Allow only handlers to be in a greenhouse:
  - ✓ during a pesticide application.
  - ✓ until labeling-listed air concentration level is met or, if no such level, until after 2 hours of ventilation with fans.
  - ✓ Special application & aeration requirements apply to greenhouses when fumigant is applied.

### *Restricted-Entry Intervals (REI's)*

During any REI, do not allow workers to enter treated areas for the amount of time specified on the label.

- ◆ Always orally warn workers and post treated areas if the pesticide label requires.
- ◆ If the label is silent on notification, either orally warn workers or post entrances to treated areas.
- ◆ Tell workers which method is in effect.
- ◆ Post all greenhouse applications on the entrance to the greenhouse.



WPS

## Additional Protection for Workers

### *Notice About Applications*

- ◆ Post legible 14" x 16" WPS-design signs just before application; keep posted during REI; remove sign before workers enter and within 3 days after the end of the REI. A smaller sign is approved for nursery sites.
- ◆ Post signs so they can be seen at all entrances to treated areas, including entrances from labor camps.

### *Oral Warnings*

- ◆ Before each application, tell workers who are on the establishment (in a manner they can understand):
  - ✓ Location and description of treated area.
  - ✓ REI, and not to enter during REI.
- ◆ Workers who enter the establishment after application starts must receive the same warning at the start of their work period.



WPS

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## Additional Protection for Handlers

### ***Application Restrictions and Monitoring***

- ◆ Do not allow handlers to apply a pesticide so as to contact, directly or through drift, anyone other than properly trained and PPE-equipped handlers.
- ◆ Make sight or voice contact at least every 2 hours with anyone handling pesticides labeled with a skull and crossbones.
- ◆ Make sure a trained handler equipped with labeling-specified PPE maintains constant voice or visual contact with any handler in a greenhouse who is doing fumigant-related tasks, such as application or air-level monitoring.

### ***Specific Instructions for Handlers***

- ◆ Before handlers do any handling tasks (mix, load, apply), inform them in a manner they can understand, of all pesticide labeling instructions for safe use.
- ◆ Keep pesticide labeling accessible to each handler during entire handling task.



# WPS

## Additional Protection for Handlers

### ***Equipment Safety***

- ◆ Inspect pesticide handling equipment before each use, and repair or replace as needed.
- ◆ Allow only appropriately trained and equipped handlers to repair, clean, or adjust pesticide equipment that contains pesticides or pesticide residues.

### ***Personal Protective Equipment (PPE)***

- ◆ Provide handlers with the PPE the pesticide labeling requires for the task, and be sure it is:
  - ✓ clean and in operating condition.
  - ✓ worn and used correctly.
  - ✓ inspected before each day of use.
  - ✓ repaired or replaced as needed.
- ◆ Be sure respirators fit correctly.
- ◆ Take steps to avoid heat related illnesses.

**OR-OSHA HAS  
ADDITIONAL PPE  
RULES!**

EXAMPLE: OR-OSHA  
REQUIRES A MEDICAL  
QUESTIONNAIRE AND  
FIT TESTING FOR  
WORKERS USING  
RESPIRATORS.

PLEASE CALL:  
800-922-2689 ENGLISH  
800-843-8086 SPANISH  
OR:  
WWW.OTOSHA.ORG

FOR YOUR COPY OF  
OR-OSHA DIVISION 4



WPS

**New WPS Glove Requirements  
for Workers, Handlers, and Pilots**

- ◆ **All agricultural pesticide handlers and early-entry workers covered by the Worker Protection Standard are now permitted to wear separate glove liners beneath chemical-resistant gloves.**
- ◆ **Agricultural pilots do not have to wear chemical-resistant gloves when entering or exiting aircraft.**
- ◆ **Handlers and early entry workers may choose whether to wear the liners.**
- ◆ **The liners may not be longer than the chemical-resistant glove, and they may not extend outside the glove.**
- ◆ **The liners must be disposed of after 10 hours of use, or whenever the liners become contaminated.**
- ◆ **Lined or flocked gloves, where the lining is attached to the inside of the chemical-resistant outer glove, remain unacceptable.**
- ◆ **Regulatory action was taken to reduce the discomfort of unlined chemical resistant gloves, especially during hot or cold periods.**



# WPS

## Additional Protection for Handlers

- ◆ Provide handlers a pesticide-free area for:
  - ✓ storing personal clothing not in use.
  - ✓ putting on PPE at start of task.
  - ✓ taking off PPE at end of task.
- ◆ Do not allow used PPE to be worn home or taken home.

### Care of PPE

- ◆ Store and wash used PPE separately from other clothing and laundry.
- ◆ If PPE will be reused, clean it before each day of reuse, according to the instructions from the PPE manufacturer unless the pesticide labeling specifies other requirements. If there are no other instructions, wash in detergent and hot water.
- ◆ Dry the clean PPE before storing, or hang to dry.
- ◆ Store clean PPE away from other clothing and away from pesticide areas.
- ◆ Store respirators in clean sealed plastic bags or coffee cans.



**Make sure the can or plastic bags is big enough for the respirator or the rubber will permanently deform and the respirator will be ruined.**



# WPS

## Additional Protection for Handlers

### ***Replacing Respirator Purifying Elements***

#### ◆ Replace dust/mist filters:

- ✓ when breathing becomes difficult.
- ✓ when filter is damaged or torn.

when respirator label or pesticide label requires (whichever is shorter), OR at the end of day's work period, in the absence of any other instructions or indications.



#### ◆ Replace vapor-removing cartridges/canisters:

- ✓ when odor/taste/irritation is noticed.
- ✓ when respirator label requires (whichever is shorter), OR at the end of day's work period, in the absence of any other instructions or indications.





WPS

## Additional Protection for Handlers

### *Disposal of PPE*

- ◆ Discard coveralls and other absorbent materials that are contaminated with undiluted pesticide having a DANGER or WARNING signal word.
- ◆ Follow Federal, State, and local laws when disposing of PPE that cannot be cleaned correctly.

### *Instructions for People Who Clean PPE*

- ✓ Inform people who clean or launder PPE:
- ✓ That PPE may be contaminated with pesticides.
- ✓ The potentially harmful effects of exposure to pesticides.
- ✓ How to protect themselves when handling PPE.
- ✓ How to clean PPE correctly.

**Make your workplace a  
language and cultural  
learning zone**

## 8 REQUIRED ITEMS ON LABELS COVERED BY THE WPS

### 1. APPLICATION RESTRICTION STATEMENT

“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.”

*Label location: DIRECTIONS FOR USE.*

### 2. 40 CFR PART 170 REFERENCE STATEMENT

“Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170.”

*Label location: AGRICULTURAL USE REQUIREMENTS.*

### 3. PRODUCT-TYPE IDENTIFICATION STATEMENT

N-methyl carbamates, organophosphates, and fumigants must be identified as such.

*Label location: Either near the product name, product-type identification or in the STATEMENT OF PRACTICAL TREATMENT or FIRST AID TREATMENT Fumigants must be identified as part of, or close to, the product name.*

### 4. STATE RESTRICTIONS

“For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.”

*Label location: DIRECTIONS FOR USE.*

### 5. SPANISH WARNING STATEMENT

If the product is classified as Tox I (Danger) or Tox II (Warning), the signal word shall appear in Spanish and English followed by the statement, “Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.” (If you don’t understand the label, find someone to explain it to you in detail).

DANGER = PELIGRO

WARNING = AVISO

*Label location: Close to the product name.*

## 8 REQUIRED ITEMS ON LABELS COVERED BY THE WPS

### 6. RESTRICTED ENTRY STATEMENT

“Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI).” If only one REI, it must be listed after the above statement in the Agriculture use box. If more than one REI for different crops, the REI will be associated with the directions for use for each crop and identified as such (example, 24 hour REI). Most ranges are 4 hours to 72 hours.

**Label location:** AGRICULTURAL USE REQUIREMENTS.

### 7. NOTIFICATION-TO-WORKERS STATEMENT

TOXICITY I for acute dermal toxicity or skin irritation shall state “Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.” For fumigants used in green houses shall state “For greenhouse application” by warning them orally and by posting warning signs outside all entrances to the greenhouse.

For any pesticide other than those for which the labeling requires both posting and oral notification of applications and the label is silent on notification, the agricultural employer shall give notice of the application to the worker either by the posting of warning signs or orally. The workers shall be informed which method of notification is in effect.

**Label location:** AGRICULTURAL USE REQUIREMENTS.

### 8. PERSONAL PROTECTIVE EQUIPMENT STATEMENT

These requirements are for all handlers of the product for all uses unless the exceptions are clearly identified and are located in two locations on the label.

**Label location:**

- a) PPE for Handlers will be in the HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
- b) PPE for EARLY ENTRY WORKERS will be placed in the AGRICULTURAL USE REQUIREMENTS and immediately after the REI statement.

# RESTRICTED USE PESTICIDE

**Due to acute oral, dermal and inhalation toxicity and avian hazards.**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

## Phorate® 20G

20% Granular Systemic Low-Odor Insecticide

ACTIVE INGREDIENT

Phorate (O,O-diethyl -S-[(ethylthio)methyl]- phosphorodithioate)..... 20.0%

INERT INGREDIENTS ..... 80.0%

TOTAL ..... 100.0%



**STOP--READ LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**DANGER**



**POISON**

**PELIGRO**

**VENENO**

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

### STATEMENT OF PRACTICAL TREATMENT ORGANOPHOSPHATE

**FIRST AID TREATMENT:** Call a doctor (physician), clinic, or hospital immediately. Explain that the victim has been exposed to Phorate and describe his condition.

**IF BREATHING HAS STOPPED,** start artificial respiration immediately and maintain until doctor sees victim.

**IF SWALLOWED,** call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available, by administering syrup of ipecac. **DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

**IN CASE OF CONTACT,** immediately flush eyes or skin with plenty of water for at least 15 minutes. See doctor immediately.

Read Additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 9779-293  
Manufactured For  
Terra International, Inc.  
P.O. Box 6000, Sioux City, Iowa 51102-6000  
*Riverside@ Serves Agriculture. Agriculture Serves Everyone.*

EPA Est. No. 34704-NE-1  
  
NET CONTENTS  
LBS.  
9/A07/8

# Phorate® 20G

## PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER

### CAN KILL IF SWALLOWED

This product can kill you if swallowed,  
even in small amounts:  
spray mist may be fatal if swallowed



### CAN KILL BY SKIN CONTACT

This product can kill you if touched by hands  
or spilled or splashed on skin,  
in eyes or on clothing (liquid goes through clothes).



### CAN KILL IF BREATHED

This product can kill you if vapors or  
spray mist are breathed.



## WORK SAFETY RULES

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE  
CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED  
SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

Persons working with this product should have frequent blood tests of their cholinesterase levels. If the cholinesterase level falls below a critical point, no further exposure should be allowed until it has been determined by means of blood tests that the cholinesterase level has returned to normal. Before using this product, consult the National Pesticide Telecommunications Network for recommendations regarding such blood tests, poisoning management, emergency treatment, and other information regarding the toxicity of Phorate. The toll free number for the National Pesticide Telecommunications Network is 1-800-858-7378. If handled indoors provide mechanical exhaust ventilation.

Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See First Aid (Practical Treatment) section.

**POISON SIGNS** (Symptoms) Phorate is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Exposed persons must receive prompt medical treatment or they may die. Some of the signs and symptoms of poisoning are headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering, of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

## Phorate® 20G

**NOTE TO PHYSICIAN:** Antidote - administer atropine sulfate in large doses. TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. DO NOT GIVE MORPHINE OR TRANQUILIZERS. Phorate is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

### **Personal Protective Equipment:**

Applicators and other handlers must wear chemical-resistant protective suit, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, and a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **Engineering Controls Statement:**

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

DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED UNLESS IN A TOTALLY ENCLOSED VEHICLE.

### **USER SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

# Phorate® 20G

## ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. Birds feeding in treated areas may be killed. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Collect or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when 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. Do not use this product through any type of irrigation system.

**NOT FOR USE OR STORAGE IN OR AROUND THE HOME.**

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), notification to workers, 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) of 48 hours. Each 48-hr. REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches per year.

Exception: If the product is soil-injected, or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: chemical-resistant protective suit, waterproof gloves, chemical resistant footwear plus socks, protective eyewear, and 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.

# WPS

## Review - Which Rule Applies?

Have pesticides (herbicides, insecticides, fungicides, miticides, etc.) been applied or has a restricted-entry interval been in effect within the last 30 days?

**YES**



WPS applies.  
Requires: All of #1 and maybe #2.  
Hazard Communication applies.

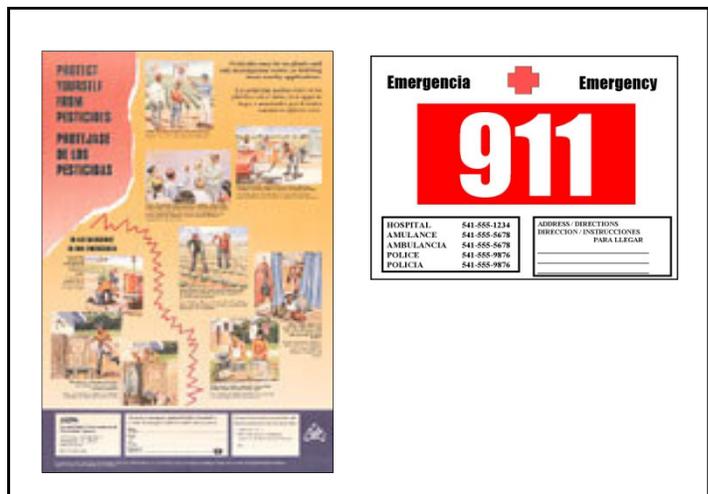
**NO**



WPS does NOT apply.  
Hazard Communication applies.

### # 1 Posting information at a central location:

- Central posting location can either be at the main farm if workers report there, or if workers report directly to the field, it shall be at the field location.
- Post the WPS poster and emergency phone numbers.



# WPS

## Review - Which Rule Applies?

**# 1 List the pesticides which have been applied within the last 30 days or have had a restricted-entry interval in effect within the last 30 days. Provide the following information for each:**

- Location of application
- Product name
- EPA registration number
- Active ingredients
- Time & date of application
- Restricted entry interval

Location Description	Product Name	Registration Number	Active Ingredient	Time/Date Application	REI <small>3 HOURS TO APPLY</small>
St. Paul Field	Phorate	9779-293	Phorate (O,O-dimethyl-S-(diethylaminoethyl) phosphorothioate)	July 18 6:30 AM	July 20 9:30 AM
Dayton Vineyard	Guthion	3125-301	O,O-dimethyl-S-(1-hydroxyethyl)-L-2-propionothioic-(S-ethyl) phosphorothioate	August 2 7:20 AM	August 24 10:20 AM
Wilsonville Nursery	Temik	264-330	Alkylar (2-methyl-2-methylpropyl) 2-methylpropylphosphorothioate	August 11 10:20 AM	August 13 1:20 PM

Tell the workers where is the central posting location and, Keep the poster and emergency information legible.

**#2 Have workers been in the treated field for more than 5 days?**

**YES**



Workers must have trained with WPS video or flip chart within the last 5 years. WPS worker cards OK, but growers must assure workers were trained.

**NO**



WPS training does NOT apply. Hazard Communication applies.

OR-OSHA Brochure plus Material Safety Data Sheets (MSDSs).

## ADDITIONAL WPS LABEL INFORMATION

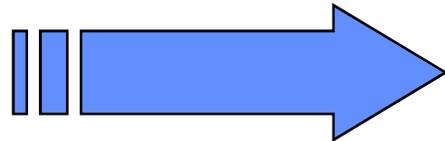
### Worker Protection Program Update Reduced Restricted Entry Intervals for Lower Toxicity Pesticides

Active ingredient and end-use product must be:

- Toxicity category III or IV for all acute toxicity categories (dermal, oral, eye irritation, etc.)
- Cannot be a carcinogen, mutagen, or teratogen
- Cannot cause developmental or reproductive effects
- Cannot be a known sensitizer



***The following 114 end-use active ingredients meet the Low Toxicity Criteria and have 4-hour REIs.***



## 114 LOW TOXICITY - 4 HOUR RESTRICTED RE-ENTRY INTERVALS

Acetylchitin	Methyl nonyl ketone
Agrobacterium radiobacter	Metsulfuron-methyl
Ampelomyces quisqualis isolate M-10	Milky spore
Azadirachtin (neem extract)	Mineral oil
B.t. subsp. aizawai	Muscalure, component of (e)-9-tricosene
B.t. subsp. aizawai strain GC-91	Muscalure, component of (z)-9-tricosene
B.t. subsp. israelensis	N-6-Benzyladenine
B.t. subsp. kurstaki	NAA, Ethyl ester
B.t. subsp. kurstaki HD-263	Nerolidol
B.t. subsp. kurstaki strain EG2348	Nicosulfuron
B.t. subsp. kurstaki strain EG2371	Nosema locustae
B.t. subsp. kurstaki strain EG2424	Octyl bicycloheptenedicarboxamide
B.t. subsp. san diego	Oxytetracycline hydrochloride
B.t. subsp. tenebrionis	Paradichlorobenzene
Bacillus popilliae and B. lentimorbus	Paraffin oils
Bacillus sphaericus	Periplanone
Bacillus subtilis GB03	Polyhedral inclusion bodies of Autographa californica
Bacillus subtilis MBI 600	Polyhedral inclusion bodies of Heliothis zea NPV or Helicoverpa zea NPV
BNOA (b-naphthoxy acetic acid)	Polyhedral inclusion bodies of beet armyworm npv
Borax	Polyhedral inclusion bodies, Neodiprion sertifer NVP
Calcium hypochlorite	Potassium gibberellate
Calcium oxytetracycline	Promalin
Calcium thiosulfate	Pseudomonas cepacia type wiscons.
Candida oleophila	Pseudomonas fluorescens
Capsicum oleoresin	Pseudomonas fluorescens A506
Checkmate peach twig borer pheromone	Pseudomonas fluorescens EG-1053
Chitosan	Pseudomonas fluorescens strain NCIB 12089
Chlorsulfuron	Pseudomonas syringae
Colletotricum gleosporoides	Puccinia canaliculata (Schweinitz)
Copper as ammonia complex	Rimsulfuron DPX-E9636
Copper salts of fatty acids	Ryania speciosa
Cytokinin	Ryanodine
2,4-DB, isooctyl	s-Kinoprene
Diatomaceous earth	s-Methoprene
Disodium octaborate tetrahydrate	Sesame plant, ground
Disparlure	Siduron
Ethylene	Silica gel
Ethoxyquin	Silicon dioxide
Farenesol	Sodium carboxymethylcellulose
Fatty acids, C8-12, Methyl esters	Sodium metaborate
Fendridazone-potassium	Soybean oil
Fluazifop-butyl	Streptomyces griseoviridis
Fluazifop-r-butyl	Streptomycin
Gibberellic acid	Streptomycin sesquisulfate
Gibberellins A4 and A7	Sulfometuron-methyl
Gliocladium virens G-21	Thifensulfuron-methyl
Glyphosate, ammonium	Thiobencarb
Glyphosate, isopropylamine	Tomato pinworm (e)-4-tridecen-1-yl acetate
Glyphosate, sodium	Tomato pinworm (e)-11-tetradecenyl acetate
Gossypure: hexadecadien-1-ol acetate	Triasulfuron
Cypsy moth npv	1-Triacontanol
Heavy aromatic naphtha	Trichoderma harzianum var. rifai (KRL-AG2)
Imazethapyr	Trichoderma harzianum (ATCC 20476)
Imazethapyr, ammonium salt	Trichoderma polysporum (ATCC 20475)
Indole-3-butyric acid	Tussock moth npv
Legendidium giganteum, mycelium	

# ***Appendices***

**Exceptions for early entry  
Sample Application List**



## **CONDITIONS FOR EARLY ENTRY**

**These are the conditions of the exceptions for early entry irrigation activities referenced in 170.112(e)(7)(i) and (ii):**

- 1. The pesticide product does not have a statement in the labeling requiring double notification (workers must be notified both verbally and by posting of these high toxicity pesticides);**
- 2. The workers do not enter the area during the first 4 hours, and until applicable ventilation criteria have been met, and until any label specified inhalation exposure level has been reached;**
- 3. Before workers enter a treated area under an REI, the agricultural employer shall give them oral or written notification of the specifics of the exception to early entry. The notification must be in a language that the workers understand;**
- 4. The workers' contact with treated surfaces is minimal and is limited to the feet, lower legs, hands and forearms;**
- 5. Personal protective equipment for early entry is provided to the worker and must either conform with the label requirements or include at least coveralls, chemical resistant gloves, socks, chemical resistant footwear, and eyewear (if eyewear is required by the product labeling);**
- 6. No hand labor activity (such as, hoeing, picking, pruning, etc.) is performed;**
- 7. The time in treated areas under a REI for any worker may not exceed 8 hours in a 24 hour period.**

# APPLICATION LIST

Location Description	Product Name	Registration Number	Active Ingredient	Time/Date Application	REI 3 HOURS TO APPLY
<i>St. Paul Field</i>	<i>Phorate</i>	<i>9779-293</i>	<i>Phorate (O,O,-diethyl-S-[ethylthio)methyl] phosphorodithioate</i>	<i>July 18 6:30 AM</i>	<i>July 20 9:30 AM</i>
<i>Dayton Vineyard</i>	<i>Guthion</i>	<i>3125-301</i>	<i>O,O-dimethyl-S-[(4oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate</i>	<i>August 2 7:20 AM</i>	<i>August 23 10:20 AM</i>
<i>Wilsonville Nursery</i>	<i>Temik</i>	<i>264-330</i>	<i>Aldicarb [2-methyl-2-(methylthio)propionaldehyde O (methylcarbamoyl)oxime]</i>	<i>August 11 10:20 AM</i>	<i>August 13 1:20 PM</i>





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