

## **14. Worker Protection Standards for Agricultural Pesticides Used in Tobacco Production**

J. Michael Moore  
*Extension Agronomist*  
*University of Georgia Cooperative Extension Service*  
P. Sterling Southern  
*Professor Emeritus—Entomology*  
Clyde E. Sorenson  
*Associate Professor—Entomology*

The U.S. EPA's Worker Protection Standard (WPS) is a regulation that requires actions to be taken to protect agricultural workers from the risk of pesticide-related illness or injury. To protect your workers, you must be aware of the Worker Protection Standard and know how to comply with its requirements. To plan effectively, you must also understand how compliance might affect your farming operation. The WPS requires employers to provide for their workers and pesticide applicators in the following three areas:

### **1. Provide Training on Pesticide Safety**

---

Information about the specific pesticides used on the farm must be provided. Much of this information must be posted in a central location, including specifics on recent pesticide applications (location of application, name of the pesticide, EPA registration number and active ingredient, time and date of application, restricted entry interval, and the time when workers may reenter the field).

### **2. Ensure Protection against Exposure**

---

Employers must provide personal protective equipment and be sure it is properly used and cleaned. They must also be sure that workers are warned about treated areas (through oral warning, posting of field, or both) and that workers do not enter treated fields during restricted entry intervals (with some very specific exceptions). This may require careful scheduling of pesticide applications and field work so that they do not conflict. Personal protective equipment requirements vary

by pesticide and may be different for applicator/handlers and mixer/loaders. Protective equipment is also required for entry into fields during the restricted-entry interval. Labels should be checked carefully for specific requirements. Restricted-entry intervals (generally 12, 24, or 48 hours) also vary, as stated on labels.

### **3. Provide Ways for Their Workers To Mitigate or Minimize the Impacts of Pesticide Exposure**

---

This includes making available decontamination sites and emergency assistance in case of exposure. For full information on the WPS, farmers should consult their county Cooperative Extension center or one of several publications available.

The following table lists products, registration numbers, common names, restricted entry intervals, and posting/notification requirements for the major pesticides and growth regulators used in tobacco. This will help you properly record and post pesticide use and plan field operations. The information in this table is presented as a reference only. Always read and follow label directions.

### **Disclaimer**

---

The following information and worker protection standards are presented in good faith for your reference. This information does not take the place of the product label; changes to product label information can occur without notice. Always read and follow label directions.

**The footnoted columns in Table 14-1 should be interpreted as follows:**

<sup>1</sup> **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 they will not contact anything that has been treated.

<sup>2</sup> Represents the m

<sup>3</sup> Refer to "Early Entry Work Situations" in The Worker Protection Standard for Agricultural Pesticides — How to Comply, pages 59-61, "Short-Term Tasks," "Emergency Tasks," and "Specific Tasks Approved by EPA Through a Formal Exception Process." See pages 45-47 for information on "Restrictions During and After Applications," including exceptions: (1) "Early Entry With No Contact" and (2) "Early Entry With Contact for Short-Term, Emergency, or Specially Excepted Tasks."

<sup>4</sup> **Notification on Farms, Forests, and Nurseries:** Refer to page 41, The Worker Protection Standard for Agricultural Pesticides — How to Comply. Unless the pesticide labeling requires both types of notification, notify workers either orally or by posting warning signs at entrances to treated areas. You must inform workers of which method of notification is being used.

**Both Oral Warning and Posted Signs:** Some pesticide labels require you to notify workers both orally and with signs posted at entrances to the treated area. If both types of notificatio  
"Agricultural Use Requi

**Table 14-1. Worker Protection Standards**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Acephate 75SP AG</b> (acephate) EPA Reg. No. 51036-236 Micro Flo	Caution	24 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	coveralls; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Acrobat MZ</b> (dimethomorph & mancozeb) EPA Reg. No. 241-383 BASF Corp.	Caution	24 hrs.	coveralls over long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Actara 25 WDG</b> (thiamethoxam) EPA Reg. No. 100-938 Syngenta Crop Protection	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Actigard 50 WG</b> (acibenzolar-S-methyl) EPA Reg. No. 100-922 Syngenta Crop Protection	Caution	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride (PVC); shoes plus socks	coveralls; chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride (PVC); shoes plus socks	either	either
<b>Admire Pro, Admire 2 F</b> (imidacloprid) EPA Reg. No. 264-758 Bayer CropScience	Caution	12 hrs.	long-sleeved shirt and long pants; chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton; shoes plus socks	chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton; shoes plus socks	either	either
<b>Agree WG</b> ( <i>Bacillus thuringiensis</i> subsp. aizawai) EPA Reg. No. 70051-47 Certis USA, LLC	Caution	4 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear; dust/mist filtering respirator	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Antak</b> (C10 fatty alcohol) EPA Reg. No. 19713-18 Drexel Chemical Corp.	Caution	24 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing or loading	coveralls over short-sleeved shirt and short pants; waterproof gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure	either	either

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Assail 70WP</b> (acetamiprid) EPA Reg. No. 8033-23-4581 Cerexagri	Caution	12 hrs.	long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and chemical resistant headgear for overhead exposure	coveralls, waterproof gloves, and shoes plus socks	either	either
<b>Belay 16WSG</b> (clothianidin) EPA Reg. No. 66330-52 Arysta LifeScience	Caution	12 hrs	long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves made of any waterproof materials, such as polyethylene or polyvinyl chloride (PVC)	Coveralls, socks, shoes, chemical-resistant gloves made of any waterproof material	either	either
<b>Biobit HP</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) EPA Reg. No. 73049-54 Valent BioSciences Corp.	Caution	4 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Brom-O-Gas</b> (95% methyl bromide) EPA Reg. No. 5785-4, -42 Great Lakes Chemical Corp.	Danger	48 hrs. and gas concentration less than 5 ppm	loose-fitting or well-ventilated long-sleeved shirt and long pants; shoes and socks; full-face shield or safety glasses with brow and temple shields	non-handlers prohibited	yes	yes
<b>Butralin FC</b> (butralin) EPA Reg. No. 33688-4-400 Crompton/Uniroyal	Danger	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves; shoes and socks; and protective eyewear	coveralls; chemical-resistant gloves; shoes and socks; and protective eyewear	either	either
<b>Check M15</b> (maleic hydrazide) EPA Reg. No. 19713-20-5549 Coastal AgroBusiness	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Chlor-o-Pic</b> (99% chloropicrin) EPA Reg. No. 5785-17 Great Lakes Chemical Corp.	Danger	48 hrs. and gas concentration less than 0.1 ppm	loose-fitting or well-ventilated long-sleeved shirt and long pants; shoes and socks; full-face shield or safety glasses with brow and temple shields. Do not wear goggles.	non-handlers prohibited	yes	yes

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Chlorpyrifos 4E AG</b> (chlorpyrifos) EPA Reg. No. 19713-520 Drexel Chemical Co. EPA Reg. No. 66222-19 Makhteshim Agan of N.A. EPA Reg. No. 51036-291 Micro Flo	Warning	24 hrs.	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves; chemical-resistant shoes plus socks; protective eyewear; chemical resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment and mixing and loading	coveralls; chemical-resistant gloves; shoes plus socks	either	either
<b>Chlorpyrifos 15 G</b> (chlorpyrifos) EPA Reg. No. 19713-505 Drexel Chemical Co. EPA Reg. No. 51036-300 Micro Flo	Caution	24 hrs.	long-sleeved shirt and long pants; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Command 3ME</b> (clomazone) EPA Reg. No. 279-3158 FMC Corp.	Caution	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate or viton; shoes plus socks; and protective eyewear	coveralls; chemical-resistant gloves, such as barrier laminate or viton; shoes plus socks; and protective eyewear	either	either
<b>Crymax</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) EPA Reg. No. 70051-86 Certis USA, LLC	Caution	4 hrs.	long-sleeved shirt and long pants; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Deliver</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) EPA Reg. No. 70051-69 Certis USA, LLC	Caution	4 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Denim 0.16 EC</b> (emamectin benzoate) EPA Reg. No. 100-903 Syngenta Crop Protection	Danger	48 hrs.	coveralls worn over long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate, butyl rubber > 14 mil, nitrile rubber > 14 mil, neoprene rubber > 14 mil, polyvinyl chloride (PVC) > 14 mil, or viton > 14 mil; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant apron when cleaning equipment, mixing, or loading	coveralls worn over long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate, butyl rubber > 14 mil, nitrile rubber > 14 mil, neoprene rubber > 14 mil, polyvinyl chloride (PVC) > 14 mil, or viton > 14 mil; chemical-resistant footwear plus socks; protective eyewear	either	either
<b>Devrinol 2-EC</b> (napropamide) EPA Reg. No. 70506-64 United Phosphorus Inc.	Danger	12 hrs.	long-sleeved shirt and long pants; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Devrinol 50-DF</b> (napropamide) EPA Reg. No. 70506-36 United Phosphorus Inc.	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves, shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>DiPel DF</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) EPA Reg. No. 73049-39 Valent Agricultural Products	Caution	4 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>DiPel ES</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) EPA Reg. No. 73049-17 Valent Agricultural Products	Caution	4 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton; shoes plus socks	coveralls; chemical-resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton; shoes plus socks	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Di-Syston 8 E</b> (disulfoton) EPA Reg. No. 264-734 Bayer CropScience	Danger Poison	48 hrs.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear; chemical-resistant apron; respirator	coveralls over long-sleeved shirt and long pants; waterproof gloves; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure	yes	yes
<b>Dithane DF Rainshield</b> (mancozeb) EPA Reg. No. 2719-402 Dow AgroScience	Caution	24 hrs.	long-sleeved shirt and long pants; chemical- resistant gloves such as butyl rubber or nitrile rubber or neoprene rubber or viton; shoes plus socks; chemical-resistant apron when cleaning equipment, mixing, or loading	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves, such as butyl rubber or nitrile rubber or neoprene rubber or viton; shoes plus socks; protective eyewear	either	either
<b>Fair Plus</b> (maleic hydrazide) EPA Reg. No. 51873-2 Fair Products, Inc.	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Fair-30</b> (maleic hydrazide) EPA Reg. No. 51873-9 Fair Products, Inc.	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Fair 80 SP</b> (maleic hydrazide) EPA Reg. No. 51873-17 Fair Products, Inc.	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Fair 85</b> (C6, C8, C10, C12 fatty alcohols) EPA Reg. No. 51873-7 Fair Products, Inc.	Warning	24 hrs.	long-sleeved shirt and long pants; chemical- resistant gloves made of any waterproof material, such as nitrile, butyl, Neoprene, or barrier lamine or butyl rubber or nitrile rubber or neoprene; shoes plus socks	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene; shoes plus socks; protective eyewear	either	either

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Flupro</b> (flumetralin) EPA Reg. No. 73631-2-400 Crompton/Uniroyal	Warning	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves made of any waterproof material, such as nitrile, butyl, Neoprene, or barrier laminate; chemical-resistant footwear plus socks	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves made of any waterproof material, such as nitrile, butyl, Neoprene, or barrier laminate; chemical-resistant footwear plus socks; protective eyewear	either	either
<b>FST-7</b> (C10 fatty alcohol and maleic hydrazide) EPA Reg. No. 51873-6 Fair Products, Inc.	Danger	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene or polyvinyl chloride or viton; shoes plus socks; protective eyewear	coveralls; chemical resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene or polyvinyl chloride or viton; shoes plus socks; protective eyewear	either	either
<b>Fulfill</b> (pymetrozine) EPA Reg. No. 100-912 Syngenta Crop Protection	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	either	either
<b>Furadan 4 F</b> (carbofuran) EPA Reg. No. 279-2876 FMC Corp.	Danger Poison	48 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene or polyvinyl chloride or viton; shoes plus socks; protective eyewear when mixing or loading; respirator. When using closed systems, enclosed cabs, or aircraft in a manner that meets WPS requirements, the PPE requirements may be reduced or modified.	coveralls; chemical-resistant gloves; shoes plus socks	yes	yes

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Golden Leaf Tobacco Spray</b> (endosulfan) EPA Reg. No. 66222-63 Makhteshim-Agan of N.A	Danger Poison	24 hrs.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear; a respirator with either organic vapor-removing cartridge with prefilter approved for pesticides, or a canister approved for pesticides, or a NIOSH-approved respirator with an organic vapor cartridge or canister with any N, R, P, or HE prefilter. Mixers and/or loaders must wear a chemical-resistant apron in addition to all the protective equipment specified for applicators.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear	either	either
<b>Javelin WG</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) EPA Reg. No. 70051-66 Certis USA, LLC	Caution	4 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Kleen-Tac 85</b> (C8 & C10 fatty alcohols) EPA Reg. No. 5549-74 Coastal AgroBusiness	Warning	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene or polyvinyl chloride or viton; shoes plus socks; protective eyewear	coveralls; chemical resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene or polyvinyl chloride or viton; shoes plus socks; protective eyewear	either	either
<b>Lannate LV</b> (methomyl) EPA Reg. No. 352-384 Du Pont	Danger Poison	48 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves; shoes plus socks; protective eyewear. For exposure outdoors, use a mist/dust filtering respirator (MSHA/NIOSH approval no. prefix TC-21C).	coveralls; chemical-resistant gloves; shoes plus socks; protective eyewear	either	either

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Lannate SP</b> (methomyl) EPA Reg. No. 352-342 Du Pont	Danger Poison	48 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear. For exposure outdoors, use a mist/dust filtering respirator (MSHA/NIOSH approval no. prefix TC-21C).	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Lepinox WDG</b> ( <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> ) Strain EG7826 EPA Reg. No. 70051-89 Certis USA LLC	Warning	12 hrs.	long sleeved shirt and long pants; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Leven-38™</b> (C10 fatty alcohol and maleic hydrazide) EPA Reg. No. 19713-105 Drexel Chemical Co.	Warning	24 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, or loading.	coveralls over short-sleeved shirt and short pants; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure	either	either
<b>Lorsban 4E</b> (chlorpyrifos) EPA Reg. No. 62719-220 Dow AgroSciences	Warning	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves; shoes plus socks	coveralls; chemical-resistant gloves; shoes plus socks	either	either
<b>Lorsban 15G</b> (chlorpyrifos) EPA Reg. No. 62719-34 Dow AgroSciences	Caution	24 hrs.	long-sleeved shirt and long pants; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Lorsban 75WG</b> (chlorpyrifos) EPA Reg. No. 62719-301 Dow AgroSciences	Warning	24 hrs.	long-sleeved shirt and long pants, shoes plus socks; mixers and loaders should also wear chemical-resistant gloves and chemical resistant apron	coveralls; chemical-resistant, waterproof gloves; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure	yes	yes

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Mature XL</b> (ethephon) EPA Reg. No. 1812-361-51873 Fair Products, Inc.	Danger	48 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; shoes plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment	coveralls; waterproof gloves; shoes plus socks; protective eyewear	yes	yes
<b>Mocap 15G</b> (ethoprop) EPA Reg. No. 264-457 Bayer CropScience	Danger Poison	48 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposures; chemical-resistant apron when cleaning equipment, mixing, and loading; dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH-approved respirator with any N, R, P, or HE filter	coveralls over short-sleeved shirt and short pants; waterproof gloves; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposures	yes	yes
<b>Mocap EC</b> (ethoprop) EPA Reg. No. 264-458 Bayer CropScience	Danger Poison	48 hrs.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber (>14 mils), nitrile rubber (>14 mils) or viton (>14 mils), chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposures; chemical-resistant apron when cleaning equipment, mixing, and loading; a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber (>14 mils), nitrile rubber (>14 mils) or viton (>14 mils); chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposures	yes	yes

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>M-Pede</b> (potassium salts of fatty acids) EPA Reg. No. 53219-6 Dow AgroSciences	Warning	12 hrs.	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves such as butyl rubber, nitrile rubber, neoprene rubber, or PVC; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, or loading	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Nemacur 3</b> (fenamiphos) EPA Reg. No. 264-731 Bayer CropScience	Danger Poison	48 hrs.	chemical-resistant protective suit; chemical-resistant gloves such as barrier laminate or viton; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; dust/mist filtering respirator (MSHA/NIOSH approval prefix TC-21C)	chemical-resistant protective suit; chemical-resistant gloves such as barrier laminate or viton; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure	yes	yes
<b>Off-Shoot T</b> (C6,C8,C10,C12 fatty alcohols) EPA Reg. No. 57582-3 Cochran Corp.	Warning	24 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Orthene 75 S</b> (acephate) EPA Reg. No. 59639-26 Valent Agricultural Products.	Caution	24 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	coveralls; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Orthene 97</b> (acephate) EPA Reg. No. 59639-91 Valent Agricultural Products	Caution	24 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	coveralls; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Pendimax 3.3</b> (pendimethalin) EPA Reg. No. 68156-6-62719 Dow AgroSciences	Caution	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or viton; shoes plus socks	coveralls; chemical-resistant gloves such as barrier laminate or viton; shoes plus socks	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Phaser3EC</b> (endosulfan) EPA Reg. No. 264-638 Bayer CropScience	Danger Poison	24 hrs.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear; a respirator with either organic vapor-removing cartridge with prefilter approved for pesticides or a canister approved for pesticides, or a NIOSH-approved respirator with an organic vapor cartridge or canister with any N, R, P, or HE prefilter. Mixers and/or loaders must wear a chemical-resistant apron in addition to all the protective equipment specified for applicators.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear	either	either
<b>Pic Plus Fumigant</b> (chloropicrin) EPA Reg. No. 8853-6 Hendrix and Dail, Inc.	Danger Poison	48 hrs	Loose-fitting or well ventilated long-sleeved shirt and long pants, or equivalent, e.g., coveralls; shoes and socks; full-face shield or safety glasses with brow and temple shields; when air concentration level is above 0.1 ppm and a respirator is required, protect the eyes by wearing a full-face respirator. A respirator is required under the following circumstances: if the air concentration level exceeds 0.1 ppm at any time, applicators and other handlers must wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter. If the air concentration level exceeds 4 ppm at any time, applicators and other handlers must wear (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F	Early re-entry prohibited	yes	yes

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Platinum™ 2 SC,</b> <b>T-MOXX 2 SC,</b> (thiamethoxam) EPA Reg. No. 100-939 Syngenta Crop Protection	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Poast</b> (sethoxydim) EPA Reg. No. 7969-58-51036 Micro Flo	Warning	12 hrs.	chemical-resistant gloves (see label); coveralls over short-sleeved shirt and short pants; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, and loading	chemical-resistant gloves (see label); coveralls over short-sleeved shirt and short pants; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, and loading	either	either
<b>Prep</b> (ethephon) EPA Reg. No. 264-418 Bayer CropScience	Danger	48 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; protective eyewear; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposures; chemical-resistant apron when cleaning equipment	coveralls over short-sleeved shirt and short pants; waterproof gloves; protective eyewear; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposures	yes	yes
<b>Prime + EC</b> (flumetralin) EPA Reg. No. 100-640 Syngenta Crop Protection	Danger	24 hrs.	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves such as barrier laminate or viton; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, or loading	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves such as barrier laminate or viton; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure	either	either
<b>Provado1.6 F</b> (imidacloprid) EPA Reg. No. 264-763 Bayer CropScience	Caution	12 hrs.	long sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Prowl 3.3</b> (pendimethalin) EPA Reg. No. 241-337 BASF Ag Products	Caution	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves; shoes plus socks	coveralls; chemical-resistant gloves; shoes plus socks	either	either
<b>Prowl H<sup>2</sup>O</b> (pendimethalin) EPA Reg. No. 241-418 BASF Ag Products	Caution	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves; shoes plus socks	coveralls; chemical-resistant gloves; shoes plus socks	either	either
<b>Ridomil Gold EC</b> (mefenoxam) EPA Reg. No. 100-801 Syngenta Crop Protection	Caution	48 hrs.	long-sleeved shirt; long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
<b>Royal MH-30</b> (maleic hydrazide) EPA Reg. No. 400-84 Crompton/Uniroyal	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Royal MH-30 SG</b> (maleic hydrazide) EPA Reg. No. 400-165 Crompton/Uniroyal	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Royal MH-30 XTRA</b> (maleic hydrazide) EPA Reg. No. 400-452 Crompton/Uniroyal	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Royaltac - M</b> (C6,C8,C10,C12 fatty alcohols) EPA Reg. No. 400-451 Crompton/Uniroyal	Danger	24 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Sevin 4F</b> (carbaryl) EPA Reg. No. 264-349 Bayer CropScience	Caution	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton; shoes plus socks; chemical-resistant headgear for overhead exposure	coveralls; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton; shoes plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Sevin 80S</b> (carbaryl) EPA Reg. No. 264-316 Bayer CropScience	Warning	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	coveralls; waterproof gloves; shoes plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Sevin XLR Plus</b> (carbaryl) EPA Reg. No. 264-333 Bayer CropScience	Caution	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton; shoes plus socks; chemical-resistant headgear for overhead exposure	coveralls; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton; shoes plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Spartan 4F</b> (sulgenrazone) EPA Reg. No. 279-3220 FMC Corp.	Caution	12 hrs.	long-sleeved shirt and long pants; shoes plus socks; waterproof gloves	coveralls over long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	either	either
<b>Sucker Plucker</b> (C6, C8, C10, C12 fatty alcohols) EPA Reg. No. 19713-35 Drexel Chemical Corp.	Warning	24 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; protective eyewear; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, or loading	coveralls over short-sleeved shirt and short pants; waterproof gloves; protective eyewear; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure	either	either
<b>Sucker Stuff</b> (maleic hydrazide) EPA Reg. No. 19713-1 Drexel Chemical Corp.	Caution	12 hrs.	long-sleeved shirt and long pants; shoes plus socks; waterproof gloves	coveralls; waterproof gloves; shoes plus socks	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Super Boll</b> (ethephon) EPA Reg. No. 1812-361 Griffin LLC	Danger	48 hrs.	chemical-resistant gloves (see label); coveralls over short-sleeved shirt and short pants; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, and loading	chemical-resistant gloves (see label); coveralls over short-sleeved shirt and short pants; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, and loading	yes	yes
<b>Telone C-17</b> (1,3-dichloropropene + chloropicrin) EPA Reg. No. 62719-12 Dow AgroSciences	Danger	5 days	<b>Not inside an enclosed cab:</b> coveralls over short-sleeved shirt and short pants; chemical-resistant gloves; chemical-resistant footwear plus socks; face-sealing goggles, unless full-face respirator is worn; chemical-resistant headgear for overhead exposure; full-face respirator with an organic-vapor-removing cartridge (must be worn whether or not the smell of Telone C-17 can be detected). <b>In enclosed cabs:</b> coveralls; shoes and socks; full-face respirator. A respirator is not required if the occupants are within an enclosed cab that is in conformance with one of the following: 1) ASAE Standard S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the WPS for agricultural pesticides -- 40 CFR 170.240 (d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1,000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time.	Only the following handler tasks may be performed in the treated area within the 5 days after the application is complete: assessing/adjusting the soil seal; assessing pest control, application technique, or application efficacy; and sampling air or soil for this product.  Unless in an enclosed cab, handlers in the treated area within 5 days after application must wear: coveralls; chemical-resistant gloves; chemical-resistant footwear and socks; and a full-face respirator.	yes	yes

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Telone II</b> (1,3-dichloropropene) EPA Reg. No. 62719-32 Dow AgroSciences	Warning	5 days	<b>Not inside an enclosed cab:</b> coveralls over short-sleeved shirt and short pants; chemical-resistant gloves; chemical-resistant footwear plus socks; face-sealing goggles, unless full-face respirator is worn; chemical-resistant headgear for overhead exposure; a respirator with an organic-vapor-removing cartridge (must be worn whether or not the smell of Telone C-17 can be detected). <b>In enclosed cabs:</b> coveralls; shoes and socks; half-face respirator. A respirator is not required if the occupants are within an enclosed cab that is in conformance with one of the following: 1) ASAE Standard S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the WPS for agricultural pesticides -- 40 CFR 170.240 (d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1,000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time.	Only the following handler tasks may be performed in the treated area within the 5 days after the application is complete: assessing/adjusting the soil seal; assessing pest control, application technique, or application efficacy; and sampling air or soil for this product.  Unless in an enclosed cab, handlers in the treated area within 5 days after application must wear coveralls; chemical-resistant gloves; chemical-resistant footwear and socks; respirator.	yes	yes
<b>Ten-Tac</b> (C-10 fatty alcohols) EPA Reg. No. 5549-79 Coastal AgroBusiness	Caution	24 hrs.	coveralls over short-sleeved shirt and short pants; waterproof gloves; protective eyewear; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, or loading	coveralls over short-sleeved shirt and short pants; waterproof gloves; protective eyewear; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Terramaster 4 EC</b> (etridiazole) EPA Reg. No. 400-422 Crompton/Uniroyal	Danger	12 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate or viton; shoes plus socks; NIOSH-approved respirator with an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an OV cartridge or canister with an N2, R, P, or HE prefilter; chemical-resistant apron when mixing, loading, or cleaning equipment	coveralls; waterproof gloves such as barrier laminate or viton or made out of any waterproof material; shoes and socks; protective eyewear	either	either
<b>Terramaster 35WP</b> (5-Ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole) EPA Reg. No. 400-416 24(c) Registrant: Uniroyal Chemical Company, Inc.	Warning	12 hrs	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear; dust/mist filtering respirator (MSHA/NIOSH-approved number prefix TC-21C) or a NIOSH-approved respirator with any N, R, P, or HE filter	coveralls; waterproof gloves; shoes and socks; protective eyewear	either	either
<b>Terr-O-Gas</b> (67% methyl bromide + chloropicrin) EPA Reg. No. 5785-24 Great Lakes Chemical Corp.	Danger Poison	48 hrs. and gas concentration less than 5 ppm (methyl bromide) and 0.1 ppm (chloropicrin)	loose-fitting or well-ventilated long-sleeved shirt and long pants; shoes and socks; full-face shield or safety glasses with brow and temple shields	non-handlers prohibited	yes	yes

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Thiodan EC</b> (endosulfan) EPA Reg. No. 1386-338-72693 Universal Crop Protection Alliance LLC	Warning	48 hrs.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear; a respirator with either organic vapor-removing cartridge with prefilter approved for pesticides, or a canister approved for pesticides, or a NIOSH-approved respirator with an organic vapor cartridge or canister with any N, R, P, or HE prefilter. Mixers and/or loaders must wear a chemical-resistant apron in addition to all the protective equipment specified for applicators.	coveralls over long-sleeved shirt and long pants; chemical-resistant gloves; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear	either	either
<b>T-MOXX 2 SC, Platinum™ 2 SC</b> (thiamethoxam) EPA Reg. No. 100-939 Syngenta Crop Protection	Caution	12 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
<b>Tracer</b> (Spinosad) EPA Reg. No. 62719-267 Dow AgroSciences	Caution	4 hrs.	long-sleeved shirt and long pants; shoes plus socks; waterproof gloves	coveralls; waterproof gloves, shoes plus socks	either	either
<b>Ultra Flourish</b> (mefenoxam) EPA Reg. No. 55146-73 Nufarm America's Inc.	Warning	48 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate or viton; shoes plus socks; protective eyewear	coveralls; chemical-resistant gloves such as barrier laminate or viton; shoes plus socks; protective eyewear	either	either

**Table 14-1. Worker Protection Standards (continued)**

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
Vapam HL (metam sodium) EPA Reg. No. 5481-468 Amvac Chemical Corp.	Poison	48 hrs.	coveralls over long-sleeved shirt and long pants; waterproof gloves; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment or when mixing, loading, or transferring without dry-disconnect fittings; face-sealing goggles, unless full-face respirator is worn; a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)	While entry is restricted, only: assessing/adjusting the soil seal; assessing pest control, application technique, or application efficacy; sampling air or soil may be performed in a treated area for this period. <b>All other tasks are prohibited until the entry restriction is over.</b> Handlers performing the above tasks must wear: coveralls over long-sleeved shirt and long pants; waterproof gloves; chemical-resistant footwear plus socks. <b>If pungent, rotten-egg odor of this product is detected, handlers must also wear:</b> face-sealing goggles, unless full-face respirator is worn; a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G).	yes	yes

Table 14-1. Worker Protection Standards (continued)

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) <sup>1</sup>	Personal Protective Equipment (PPE) <sup>2</sup>		Worker Notification <sup>4</sup>	
			Applicators and Other Handlers	To Enter Treated Area within REI <sup>3</sup>	Oral	Posted
<b>Vydate L</b> (oxamyl) EPA Reg. No. 352-372 Du Pont	Danger	48 hrs.	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves such as barrier laminate, butyl rubber, neoprene rubber, polyvinyl chloride (PVC), viton or nitrile rubber; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing, or loading; respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)	coveralls over short-sleeved shirt and short pants; chemical-resistant gloves such as barrier laminate, butyl rubber, neoprene rubber, polyvinyl chloride (PVC), viton or nitrile rubber; chemical-resistant footwear plus socks; protective eyewear; chemical-resistant headgear for overhead exposure	either	either
<b>Warrior 1 CS</b> (lambda-cyhalothrin) EPA Reg. No. 100-1112 Syngenta Crop Protection	Warning	24 hrs.	long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton > 14 mils; shoes plus socks; protective eyewear	coveralls; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton > 14 mils; shoes plus socks	either	either
<b>XenTari</b> ( <i>Bacillus thuringiensis</i> , subsp. <i>aizawai</i> ) EPA Reg. No. 73049-40 Valent Biosciences Corp.	Caution	4 hrs.	long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; dust/mist filtering respirator NIOSH standards of at least N-95, R-95 or P-95	coveralls; waterproof gloves; shoes plus socks	either	either