

EPA WORKER PROTECTION STANDARDS FOR COMMONLY USED PESTICIDES FOR FLUE-CURED TOBACCO 2007

*J. Michael Moore, Extension Agronomist, Tobacco, University of Georgia Cooperative Extension Service
T. David Reed, Extension Agronomist, Tobacco, Southern Piedmont AREC*

The US-EPA Worker Protection Standard 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 (WPS) and know how to comply with its requirements. To plan effectively, you must also understand how compliance might affect your farming operation.

The Standard requires that employers provide for their workers and pesticide applicators in three areas. 1) 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 (REI), and the time when workers may reenter the field). 2) Protection against exposure must be ensured. Employers must provide personal protective equipment (PPE) 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 REIs

(with some very specific exceptions). This may require careful scheduling of pesticide application and field work so that they do not conflict. PPE requirements vary from pesticide to pesticide and may be different for applicator/handlers and mixer/loaders. PPE is also required for entry into fields during the REI. Labels should be checked carefully for specific requirements. REIs also vary by pesticide, as stated on labels. 3) Employers must 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.

The following table lists products, registration numbers, common names, REIs, and posting/notification requirements for commonly used pesticides and growth regulators labeled for tobacco. The label may include more detailed information regarding PPE requirements. The information in this table is presented in good faith as a **reference only**. This information does not take the place of the product label; changes to label information can occur without notice. ***Always read and follow label directions.*** The list does not contain all products labeled for use on tobacco, but should include the vast majority of products used on tobacco in Virginia.

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.*

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Acephate® 75SP AG (acephate) EPA Reg. No. 51036-236 Micro Flo	Caution	24 hrs.	long-sleeve 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
Acephate 97UP EPA Reg. No. 70506-8 United Phosphorus						
(Actara 25 WDG (thiamethoxam) EPA Reg. No. 100-938 Syngenta Crop Protection	Caution	12 hrs.	long-sleeve shirt, waterproof gloves, shoes plus socks	coveralls, waterproof gloves, shoes plus socks	either	either
Actigard® 50WG (acibenzolar-S-methyl) EPA Reg. No. 100-922 Syngenta Crop Protection	Caution	12 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves made of any waterproof material; shoes plus socks	coveralls, chemical-resistant gloves made of any waterproof material; shoes plus socks	either	either
Admire® Pro 4.6SC (imidacloprid) EPA Reg. No. 264-827 Bayer CropScience	Caution	12 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
Agree® (<i>Bacillus thuringiensis</i> var. <i>aizawai</i> strain) EPA Reg. No. 70051-47 Certis USA	Caution	4 hrs.	long-sleeve 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
Aliette WDG Fungicide (aluminum tris o- ethylphosphonate) EPA REg. No. 264-516 Bayer CropScience	Caution	12 hrs.	long-sleeve shirt and long pants; waterproof gloves, shoes plus socks; protective eyewear	coveralls, waterproof gloves, shoes plus socks; protective eyewear	either	either

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Alias[®] 2F (imidacloprid) EPA Reg. No. 264-758-66222 Makhteshim Agan of North America, Inc.	Caution	12 hrs.	long-sleeve shirt and long pants, waterproof gloves, shoes plus socks, and chemical resistant headgear for overhead exposure	coveralls, chemical resistant gloves and shoes plus socks	either	either
Assail[®] 70WP (acetamiprid) EPA Reg. No. 8033-23-4581 Cerexagri, Inc.	Caution	12 hrs.	long-sleeve shirt and long pants, waterproof gloves, shoes plus socks, and chemical resistant headgear for overhead exposure	coveralls, chemical resistant gloves and shoes plus socks	either	either
Assail[®] 30WG EPA Reg. No. 8033-36-82695						
Brom-O-Gas[®] (98% methyl bromide) EPA Reg. No. 5785-4, -42 Great Lakes Chemical	Danger	48 hrs. and gas concentra- tion less than 5 ppm	loose fitting or well ventilated long-sleeve shirt and long pants; shoes and socks; fullface shield or safety glasses with brow and temple shields (NO GOGGLES); fullface respirator required when air concentration exceeds 5ppm.	non-handlers prohibited	yes	yes
Capture 2EC (bifenthrin) EPA Reg. No. 279-3114 FMC Corporation	Warning	12 hrs.	long-sleeve shirt and long pants, chemical-resistance gloves, such as Barrier Laminate or Nitrile rubber or Vitron; shoes plus socks, and protective eyewear	coveralls, chemical-resistant gloves, such as Barrier Laminate or Nitrile rubber or Neoprene rubber or Vitron, and shoes plus socks	either	either
Capture LFR 1.5EC EPA Reg. No. 279-3302						
Chlor-O-Pic[®] (99% chloropicrin) EPA Reg. No. 5785-17 Great Lakes Chemical	Danger	48 hrs. and gas concen- tration less than 0.1 ppm	loose fitting or well ventilated long-sleeve shirt and long pants; shoes and socks; fullface shield or safety glasses with brow and temple shields. (NO GOGGLES), full-face respirator when air concentration exceeds 0.1 ppm.	non-handlers prohibited	yes	yes
Chloropicrin 100[®] EPA Reg. No. 8536-02-8853 Hendrix and Dail, Inc.						

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Command® 3ME EPA Reg. No. 279-3158 FMC CORPORATION EPA Reg. No. 279-3158-5905 Helena Chemical Co. EPA Reg. No. 279-315-34704 UAP-Loveland Products, Inc. EPA Reg. No. 279-3158-55467 Tenkoz, Inc.	Caution	12 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves, such as Barrier Laminate, Butyl or Nitrile rubber, or Viton; shoes plus socks.	coveralls; chemical-resistant gloves, such as Barrier Laminate, Butyl or Nitrile rubber or Viton; and shoes plus socks.	either	either
Crymax® (<i>Bacillus thuringiensis</i>) EPA Reg. No. 70051-86 Certis USA	Caution	4 hrs.	long-sleeve shirt and long pants; shoes plus socks; and dust/mist filtering respirator	coveralls; waterproof gloves; shoes plus socks; and protective eyewear	either	either
Deadline Bullets 4G (metaldehyde) EPA No. 64864-00002-AA-00000 Pace International	Caution	12 hrs.	long-sleeve shirt and long pants; shoes plus socks	long-sleeve shirt; shoes plus socks	either	either
Denim 0.16EC (emamectin benzoate) EPA Reg. No. 100-903 Syngenta Crop Protection	Danger	48 hrs.	coveralls worn over long-sleeve shirt and long pants, chemical- resistant gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant apron when cleaning equipment, mixing or loading.	coveralls over long-sleeve shirt and long pants, chemical- resistant gloves, chemical- resistant footwear plus socks.	either	either
Devrinol 2-EC (napropamide) EPA Reg. No. 70506-64 United Phosphorus, Inc.	Danger	12 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves such as Barrier Laminate or Viton ≥ 14 mils; shoes plus socks; protective eyewear	coveralls; chemical-resistant gloves such as Barrier Laminate or Viton ≥ 14 mils; shoes plus socks; protective eyewear	either	either

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Devrinol® 50-DF (napropamide) EPA Reg. No. 70506-36 United Phosphorus, Inc.	Caution	12 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves, shoes plus socks	coveralls; chemical-resistant gloves; shoes plus socks	either	either
Dipel® DF (<i>Bacillus thuringiensis</i>) EPA Reg. No. 275-103 Valent	Caution	4 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
Dipel® ES EPA Reg. No. 73049-17						
Dithane® DF Rainshield (mancozeb) EPA Reg. No. 62419-402 SLN No. VA940001 Dow AgroSciences LLC	Caution	24 hrs.	coveralls over long-sleeve shirt and long pants; chemical resistant gloves; shoes plus socks	coveralls over long-sleeve shirt and long pants; chemical resistant gloves; shoes plus socks	either	either
Fair 85® (C6 - C12 fatty alcohols) EPA Reg. No. 51873-7 Fair Products	Warning	24 hrs.	long-sleeve 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
Fair Plus® (maleic hydrazide) EPA Reg. No. 51873-2 Fair Products	Caution	12 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
FluPro (flumetralin) EPA Reg. No. 73631-2-400 Uniroyal	Warning	24 hrs.	long-sleeve 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	long-sleeve 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; protective eyewear	either	either

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Forum (<i>dimethomorph</i>) EPA REg. No. 241-427 BASF Corporation	Caution	12 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves; shoes plus socks	long-sleeve shirt and long pants; chemical-resistant gloves; shoes plus socks	either	either
FST-7® (C10 fatty alcohol and maleic hydrazide) EPA Reg. No. 51873-6 Fair Products	Danger	24 hrs.	long-sleeve shirt and long pants; chemical resistant gloves such as Barrier Laminate, butyl rubber, nitrile rubber, neoprene, 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
Fulfil® 50WDG (pymetrozine) EPA Reg. No. 100-192 Syngenta Crop Protection	Caution	12 hrs.	coveralls; chemical-resistant waterproof gloves, shoes plus socks	coveralls; chemical-resistant gloves, waterproof shoes plus socks	either	either
Lannate® L (methomyl) EPA Reg. No. 352-370	Danger	48 hrs.	long-sleeve shirts and long pants; chemical-resistant gloves; shoes plus socks; protective eyewear; exposure outdoors mist/dust filtering respirator	coveralls; chemical-resistant gloves; shoes plus socks, protective eyewear	either	either
Lannate® LV EPA Reg. No. 352-384 DuPont						
Lannate® SP (methomyl) EPA Reg. No. 352-342 DuPont	Danger	48 hrs.	long-sleeve shirts and long pants; waterproof gloves; shoes plus socks; protective eyewear; exposure outdoors mist/dust filtering respirator (MSHA/NIOSH approval no. prefix TC-21C)	coveralls; waterproof gloves; shoes plus socks, protective eyewear	either	either

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Leven-38® (C10 fatty alcohol and maleic hydrazide) EPA Reg. No. 19713-105 Drexel	Danger	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
Lorsban® 4E (chlorpyrifos) EPA Reg. No. 62719-220	Warning	24 hrs.	long-sleeve shirt and long pants; chemical resistant gloves; shoes plus socks	coveralls; chemical-resistant gloves; shoes plus socks	yes	yes
Nemacur® 3 (fenamiphos) EPA Reg. No. 264-731 Bayer CropScience	Danger	48 hrs.	see label for extensively detailed instructions for PPE	coveralls over long-sleeve shirt and long pants; chemical resistant gloves, chemical-resistant footwear plus socks; chemical-resistant headgear (if overhead exposure)	yes	yes
Nuprid 2F (imidacloprid) EPA Reg. No. 228-484 Nufarm Americas, Inc Nuprid 1.6F EPA REeg. No. 228-488	Caution	12 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
Off-Shoot T® (C6 - C12 fatty alcohols) EPA Reg. No. 57582-3 Cochran	Warning	24 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks; protective eyewear	coveralls; waterproof gloves; shoes plus socks; protective eyewear	either	either
Orthene® 75S (acephate) EPA Reg. No. 59639-26 Orthene® 97 EPA Reg. No. 59639-91 Valent	Caution	24 hrs.	long-sleeve 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

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Pasada[®] 1.6 F (imidacloprid) EPA Reg. No. 264-763-6622 Makhteshim Agan of North America, Inc	Caution	12 hrs.	long-sleeve shirt and long pants, waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
Pic Plus (chloropicrin) EPA Reg. No. 8853-6 Hendrix and Dail, Inc.	Danger	48 hrs. and gas concentration less than 0.1 ppm	coveralls or loose-fitting or well ventilated long-sleeve shirt and long pants; shoes and socks; full- face shield or safety glasses with brow and temple shields (Do Not wear goggles); full-face respirator when air concentration exceeds 0.1 ppm	non-handlers prohibited	yes	yes
Platinum[®] 2SC (thiamethoxam) EPA Reg. No. 100-939 Syngenta Crop Protection	Caution	12 hrs.	long-sleeve shirt, waterproof gloves, shoes plus socks	coveralls, shirt, waterproof, gloves, shoes plus socks	yes	yes
Poast[®] (sethoxydim) EPA Reg. No. 7969-58-51036 SLN No. VA-980004 Micro Flo Co., LLC	Warning	12 hrs.	coveralls over short-sleeved shirt and short pants; chemical resistant gloves ≥14 mils; chemical resistant footwear plus socks; protective eyewear; chemical resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing and loading	coveralls over short-sleeved shirt and short pants; chemical resistant gloves ≥14 mils; chemical resistant footwear plus socks; protective eyewear; chemical resistant headgear for overhead exposure	either	either
Prep[®] (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

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Prime+® (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 foot-wear plus socks; protective eyewear; chemical resistant headgear for overhead exposure; chemical-resistant apron when cleaning equip-ment, mixing or loading	coveralls over short-sleeved shirt; 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
Provado 1.6F (imidacloprid) EPA Reg. No. 3125-457 Bayer Crop Protection	Caution	12 hrs.	long-sleeve shirt and long pants, waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
Prowl® 3.3 (pendimethalin) EPA Reg. No. 241-337 BASF Corp.	Caution	24 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves such as Barrier Laminate or Viton >14 mils; shoes plus socks	coveralls; chemical-resistant gloves such as Barrier Laminate or Viton >14 mils; shoes plus socks	either	either
Prowl® H₂O (pendimethalin) EPA Reg. No. 241-418 BASF Corp.						
Pendimax 3.3 EPA Reg. No. 68156-6-62719 Dow AgroSciences LLC						
Quadris (azoxystrobin) EPA Reg. No. 100-1098 Syngenta Crop Protection	Caution	4 hrs.	long-sleeve shirt and long pants; chemical-resistant gloves; shoes plus socks	coveralls; chemical-resistant gloves; shoes plus socks	either	either

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Ridomil Gold EC ® (mefenoxam) EPA Reg. No. 100-801 Syngenta Crop Protection	Caution	48 hrs.	long-sleeve shirt and long pants, chemical-resistant gloves, shoes plus socks	coveralls, chemical-resistant gloves, shoes plus socks	either	either
Ridomil Gold SL ® (mefenoxam) EPA Reg. No. 100-1202						
Royal MH-30 ® (maleic hydrazide) EPA Reg. No. 400-84 Uniroyal Chemical	Caution	12 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks	coveralls; waterproof gloves; shoes plus socks	either	either
Sevin ® 4F (carbaryl) EPA Reg. No. 264-349	Caution	12 hrs.	long-sleeve 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 and 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 and chemical-resistant headgear for overhead exposure	either	either
Sevin ® XLR Plus EPA Reg. No. 264-333 Bayer CropScience						
Sevin ® 80S (carbaryl) EPA Reg. No. 264-316 Bayer CropScience	Warning	12 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks and chemical-resistant headgear for overhead exposure	coveralls; waterproof gloves; shoes plus socks and chemical- resistant headgear for overhead exposure	either	either
Spartan 4F (sulfentrazone) EPA Reg. No. 279-3220 FMC Corporation	Caution	12 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks	coveralls over long-sleeve shirt and long pants; waterproof gloves; shoes plus socks	either	either

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Sucker Plucker [®] (C6 - C12 fatty alcohols) EPA Reg. No. 19713-35 Drexel	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
Sucker Stuff [®] (maleic hydrazide) EPA Reg. No. 19713-	Caution	12 hrs.	long-sleeve shirt and long pants; shoes plus socks; waterproof gloves	coveralls; waterproof gloves; shoes plus socks	either	either
Super Sucker Stuff [®] EPA Reg. No. 19713-20 Drexel						
Telone [®] C-17 (1,3-Dichloropropene and Chloropicrin) EPA Reg.No. 62719-12 Dow AgroSciences LLC	Danger	5 days	see label for extensively detailed instructions for PPE	Non-handlers prohibited; see label for extensive instructions for handlers	yes	yes
Telone [®] II (1,3-Dichloropropene) EPA Reg. No. 62719-32 Dow AgroSciences LLC	Warning	5 days	see label for extensively detailed instructions for PPE	Non-handlers prohibited; see label for extensive instructions for handlers	yes	yes
Temik 15G (aldicarb) EPA Reg. No. 264-330 SLN No. VA820013 Bayer CropScience	Danger	48 hrs. Do not contact damp soil after the first rain or irrigation	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, chemical resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure	yes	yes

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Terramaster 4EC (etridiazole) EPA Reg. No. 400-422 Chemtura USA Corporation	Danger	12 hrs.	long-sleeve shirt and long-pants, chemical resistant gloves such as barrier laminate or viton, shoes plus socks, NIOSH approved respirator, chemical-resistant apron when mixing, etc.	coveralls, chemical-resistant gloves such as barrier laminate or viton, shoes plus socks, protective eyewear	yes	yes
TMOXX[®] 2SC (thiamethoxam) EPA REg. No. 100-939-51873 Fair Products	Caution	12 hrs.	long-sleeve shirt, waterproof gloves, shoes plus socks	coveralls, shirt, waterproof, gloves, shoes plus socks	yes	yes
Tracer[®] 4 (spinosad) EPA Reg. No. 62719-267 SLN No. VA980001 Dow AgroSciences	Caution	4 hrs.	long-sleeve shirt and long pants; shoes plus socks; waterproof gloves	coveralls; waterproof gloves; shoes plus socks	either	either
Ultra Flourish (mefenoxam) EPA Reg. No. 55146-73 NuFarm Americas, Inc.	Warning	48 hrs.	long-sleeve shirt and long pants, chemical-resistant gloves, shoes plus socks, protective eyewear	coveralls, chemical-resistant gloves, shoe plus socks, protective eyewear	yes	yes
Vapam HL[®] (metam sodium) EPA Reg. No. 5481-468 AMVAC	Danger	48 hrs.	coveralls over long-sleeve 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; respirator with proper prefilter/canister	Non-handlers prohibited. Handlers performing allowed tasks must wear coveralls over long-sleeve shirt and long pants; waterproof gloves; chemical- resistant footwear plus socks. Plus handlers must also wear if pungent, rotten egg odor of this product can be detected face-sealing goggles, unless full-face respirator is worn; and a respirator	yes	yes
Metam CLR[®] EPA Reg. No. 45728-16 Taminco, Inc.						
Sectagon 42[®] EPA Reg. No. 61842-6 Tessengerlo Kerley, Inc.						

Product Trade Name (common name) EPA Reg. No. Company Name	Signal Word	Restricted Entry Interval (REI) ¹	Personal Protective Equipment (PPE) ²		Worker Notification ⁴	
			Applicators and Other Handlers	To Enter Treated Area Within REI ³	Oral	Posted
Warrior (lambda-cyhalothrin) EPA Reg. No. 100-1112 Syngenta	Warning	24 hrs	long-sleeve shirt and long pants, chemical resistant gloves, shoes plus socks, protective eyewear	coveralls, chemical resistant gloves, shoes, plus socks	either	either
XenTari® WDG (<i>Bacillus thuringiensis</i>) EPA Reg. No. 275-85 Valent	Caution	4 hrs.	long-sleeve shirt and long pants; waterproof gloves; shoes plus socks; dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C)	coveralls; waterproof gloves; shoes plus socks	either	either

¹Exception: 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.

²Represents the minimum PPE required; more protective clothing can be worn. See product label for recommended chemical-resistant glove materials.

³Refer 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."

⁴**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 of warning signs at entrances to treated areas. You must inform workers 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 notification are required, the following statement will be in the "Directions for Use" section of the pesticide labeling under the heading Agricultural Use Requirements: "Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas."

