

Commonly Used Organic Pesticides-- Worker Protection Standard (WPS) Information

Disclaimer: Please read the pesticide label prior to use. The information contained here is not a substitute for a pesticide label.

Anne Macmillan VAAFM 802-828-3479

Product name (active ingredient)	Signal Word	REI (hrs)	Personal Protective Equipment (PPE) REQUIRED
FUNGICIDES AND BACTERICIDES			
Actinovate AG (<i>Streptomyces lydicus</i>)	Caution	1 ¹	Long Sleeved Shirt(LSS), pants, shoes plus socks. Mixers/loaders and applicators must wear a dust/mist filtering respirator. ²
Agri-mycin 17 (Streptomycin sulfate)	Caution	12	LSS,pants, shoes plus socks, chemical-resistant gloves made of any waterproof material, shoes plus socks.
Basic Copper 53 (copper sulfate)	Warning	24	LSS, pants, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride, shoes plus socks, protective eyewear, chemical resistant headgear for overhead exposure, dust/mist filtering respirator (MSAH/NIOSH approval # prefix TC-21.
Champ WG (copper hydroxide)	Danger	24	LSS, pants, chemical resistant gloves made from any waterproof material, shoes plus socks, and protective eyewear.
Mycostop (<i>Streptomyces griseoviridis</i>)	Caution	4	LSS, pants, waterproof gloves, shoes plus socks, Dust/mist filtering respirator. ²
Nu-COP 50DF (copper hydroxide)	Danger	24	LSS, pants, chemical-resistant gloves made of any waterproof material, shoes plus socks, protective eyewear.
Oxidate (hydrogen dioxide)	Danger	1 ⁴	When handling concentrate, wear protective eyewear (goggles or face shield) and rubber gloves. Applicators and handlers must wear coverall over LSS, pants, and chemical resistant footwear plus socks.
Serenade ASO (<i>Bacillus subtilis</i>)	Caution	4	LSS, pants, waterproof gloves, shoes plus socks. Mixers/loaders and applicators must wear a dust/mist filtering respirator. ³
Serenade MAX (<i>Bacillus subtilis</i>)	Caution	4	LSS, pants, waterproof gloves, shoes plus socks. Mixers/loaders and applicators must wear a dust/mist filtering respirator. ³
StorOx (hydrogen dioxide)	Danger	1 ⁴	When handling concentrate, wear protective eyewear (goggles or face shield) and rubber gloves. Applicators and handlers must wear coverall over LSS, pants, and chemical resistant footwear plus socks.
INSECTICIDES AND MITICIDES			
Aza-Direct (azadiractin)	Caution	4	LSS, pants, chemical resistant gloves, shoes plus socks.
Dipel Pro DF (<i>Bacillus thuringiensis</i>)	Caution	4	LSS, pants, waterproof gloves, shoes plus socks.
Entrust Naturalyte (spinosad)	Caution	4	LSS, pants, shoes plus socks. Chemical resistant gloves, mist filtering respirator. ²
Javelin WG (<i>Bacillus thuringiensis</i>)	Caution	4	LSS, pants, waterproof gloves, shoes plus socks. Mixers/loaders and applicators must wear a dust/mist filtering respirator. ²
M-Pede (pottasium salts of fatty acids)	Warning	12	LLS, pants, shoes plus socks. Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear: 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.
Mycotrol O (<i>Beauveria bassiana</i>)	Caution	4	LSS, pants, shoes plus socks, and dust/mist filtering respirator. ²
Naturalis L (<i>Beauveria bassiana</i>)	Caution	4	LSS, pants, shoes plus socks. Chemical resistant gloves, mist filtering respirator. ²
Neemix 4.5 (azadiractin)	Warning	12	LSS, pants, chemical resistant gloves, such as barrier laminate or butyl, nitrile or neoprene rubber, PVC or viton, shoes plus socks, protective eyewear.
Plant Shield HC (<i>trichoderma</i>)	Caution	0	Applicators and other handlers must wear:Long sleeved shirt, long pants, socks and shoes. When dumping or opening bags, or other operations where dusts may be created, wear a dust/mist filtering respirator. ²
Pyganic EC 1.4 II (pyrethrins)	Caution	12	LSS, pants, chemical resistant gloves, shoes plus socks.
Pyganic EC 5.0 II (pyrethrins)	Warning	12	Coveralls over short-sleeved shirt and short pants; Chemical-resistant gloves, such as Barrier Laminate, Nitrile Rubber,Neoprene Rubber, or Viton; Chemical-resistant footwear plus socks; and chemical-resistant headgear for overhead exposure. Chemical-resistant apron when cleaning equipment, mixing, or loading.
Surround WP (kaolin)	Caution	4	LSS, long pants, socks and shoes, and MSHA/NIOSH approved dust/mist-filtering respirator ⁴ Nuisance dust masks and goggles provide the best protection for harvesters especially when plants are shaken during harvest.
Trilogy (azadiractin)	Caution	4	LSS, pants, chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or PVC or viton, shoes plus socks.

1. For foliar application. If the product is soil incorporated, the REI is zero(0) as long as workers do not contact anything that has been treated.

2. With approval number prefix N-95, R-95, P-95 or HE filter.

3. The following equipment and precautions must be followed for 7 days after the application of the product. An eye flush container, designed specifically for flushing eyes must be available at the WPS decontamination site for workers entering the treated area with copper hydroxide. Workers must also be notified of the application by warning them orally that treated areas may be highly irritating to their eyes and to take precautions such as refraining from rubbing their eyes and if they get residues in their eyes they should immediately flush their eyes using the eyeflush container.

4. REI of 1 hr. when product is applied via fogging or spraying to growing plants, surfaces, equipment, structures, and non-porous surfaces in enclosed environments such as greenhouses and glasshouses. REI of zero (0) hours for pre-plant dip, soil drench, mop, sponge, dip, soak, rinse or other non-spraying or fogging application methods when used in enclosed environments such as greenhouses and glasshouses.