

Personal Protective Equipment

Cynthia Paz Pesticide Use Enforcement

What is Personal Protective Equipment?

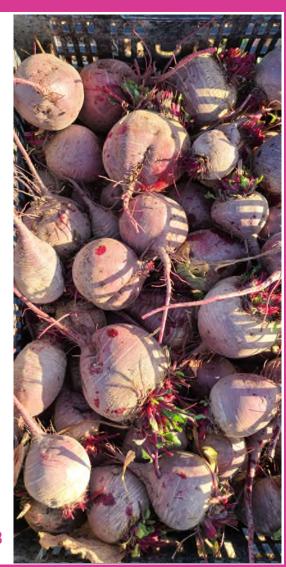
<u>Personal Protective Equipment (PPE)</u>: apparel and devices worn to minimize human body contact with pesticides or pesticide residues that must be provided by an employer and are separate from, or in addition to, work clothing.

PPE may include, chemical resistant suits, chemical resistant gloves, chemical resistant footwear, respiratory protection devices, chemical resistant aprons, chemical resistant headgear, protective eyewear, or a coverall (one- or two-piece garment).

Personal Protective Equipment Care

The employer **shall** assure that:

- Provide all PPE
 - required by pesticide label, regulation, and restricted material permit condition
 - provide for its daily inspection and cleaning
 - repair or replace any worn, damaged, or heavily contaminated PPE
 - Leather gloves used to apply only aluminum/magnesium phosphide are considered clean after +12 hours aeration
- Assure that all **clean** PPE, when not in use, is **kept separate** from personal clothing and in a **clean** and **pesticide-free**, specifically designated place.
- **Assure** that personal protective equipment is **used correctly** for its intended purpose.



3CCR 6738

Personal Protective Equipment Care Cont.

- Keep and wash PPE separately from other clothing or laundry.
- Assure that all clean PPE is either dried thoroughly before being stored or is put in a well-ventilated place to dry.
- Assure that PPE remains the property of the employer and that pesticide
 handlers are not allowed or directed to take potentially contaminated personal
 protective equipment into their homes.
 - Employees whose work day does not involve return to the headquarters shall remove and store potentially contaminated coveralls in a sealable container outside of their own living quarters
- Any person or firm assigned or hired to clean or repair potentially contaminated PPE is protected and informed in accordance with the requirements of section 6744.

PPE USE

6738.1

Personal Protective Equipment Use

The employer **shall** assure that:

- Employees **wear protective eyewear** when employees are mixing, loading, or applying pesticides by hand or ground rig, and when exposed to application, mixing, or loading equipment that contains or is contaminated with pesticide.
- Employees **wear chemical-resistant gloves** when employees are mixing, loading, or applying pesticides by hand or ground rig, or when exposed to application equipment that contains or is contaminated with pesticide.
- Employees wear chemical-resistant **footwear when required**. Unless specified on the pesticide product labeling, chemical-resistant shoes, chemical-resistant boots, or chemical-resistant coverings worn over shoes or boots meet this requirement.



Personal Protective Equipment Use Cont.

- Employees wear a chemical-resistant **hood** or a wide-brim chemical-resistant **hat** when chemical-resistant **headgear** is required.
- Employees wear coveralls whenever they handle pesticides with the signal word "DANGER" or "WARNING" except when using fumigants (unless the pesticide product labeling expressly requires the use of coveralls)
- Employees wear a chemical-resistant **apron** when required. The apron must cover the front of the body from mid-chest to the knees
- Employees wear a chemical-resistant suit that covers the torso, head, arms, and legs when a full-body chemical-resistant suit is required

3CCR 6738.1

EYES

6738.2

Protective Eyewear

The employer **shall** assure that:

- Appropriate protective eyewear, **providing brow and temple** protection that conforms to the curvature of the face and side protection to the eyes, is worn when its use is required.
- Whenever **protective eyewear is required***, and the labeling does not identify a specific type, one of the following types of eyewear or eye protective devices must be worn:
 - Safety glasses that provide front, brow, and temple protection.
 - Goggles.
 - Face shield.

Protective Eyewear (Cont.)

- If the pesticide labeling identifies a specific type of protective eyewear, that specified eyewear or more protective eyewear, must be worn.
- The use of a NIOSH respirator with a full-face will satisfy the protective eyewear requirement
- Prescription lenses must not interfere with fit and function of PPE and vice versa



GLOVES

6738.3

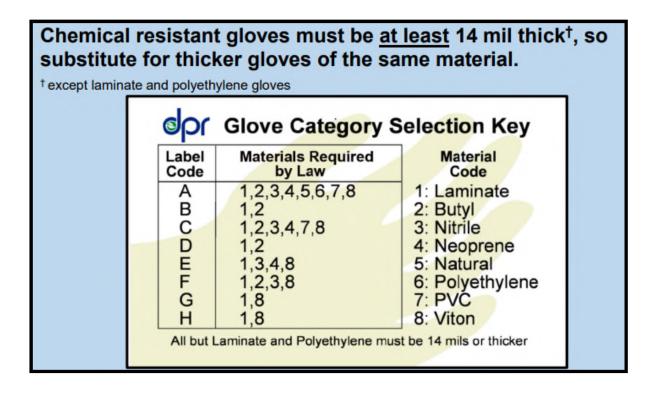
Selection of Gloves

The employer **shall** assure that:

- Appropriate **chemical-resistant gloves** are worn by employees when their use is required*.
- If the barrier material is **specified by a category** on the product **labeling**, the required glove material must be:
 - Category A: barrier laminate, butyl rubber, nitrile rubber, neoprene, natural rubber, polyethylene, polyvinyl chloride (PVC), or Viton®.
 - Category B: barrier laminate or butyl rubber.
 - Category C: barrier laminate, butyl rubber, nitrile rubber, neoprene, PVC, or Viton®.
 - Category D: barrier laminate or butyl rubber.
 - Category E: barrier laminate, nitrile rubber, neoprene, or Viton®.
 - Category F: barrier laminate, butyl rubber, nitrile rubber, or Viton®.
 - Category G or H: barrier laminate, or Viton®.

3CCR 6738.3

Selection of Gloves (Cont.)



Selection of Gloves (Cont.)

- If use of chemical-resistant gloves is required by pesticide labeling without specification of a barrier material or category, the barrier material may be any listed
- All barrier materials must be 14 mils or thicker except:
 - barrier laminate
 - polyethylene materials
 - When chemical-resistant gloves are used to **make fine adjustments** to equipment or other activities that require **high dexterity** and motor control skill the gloves must be made of an **appropriate barrier material** and only be used for a **maximum of 15 minutes**. Such gloves may only be used once for such specific tasks and must be **discarded** and not reused **after the task is accomplished**.



Selection of Gloves (Cont.)

- Separable glove liners made of cotton or other absorbent materials may be worn under chemical-resistant gloves unless expressly prohibited by pesticide product labeling.
 - liners must not extend beyond the end of the chemical-resistant glove.
 - must be disposed of at the end of the workday or immediately if liner comes in contact with pesticide
- Flocked gloves or those with other types of non-separable liners are prohibited.
- Leather gloves may be worn over chemical-resistant gloves when required by working conditions.
 - must not be worn again without chemical-resistant gloves underneath
- If chemical-resistant gloves are brought into the cockpit of an aircraft that has been used to apply pesticides, the gloves must be stored in an enclosed chemical-resistant container.

3CCR 6738.3

EXEMPTIONS

6738.4



Exemptions

- The following exceptions and substitutions to personal protective equipment required by pesticide product labeling or regulation are permitted.
- However, employers shall assure that all exempted personal protective equipment is present and available for use at the worksite and stored in a chemical-resistant container, such as a plastic bag, even if the personal protective equipment's use is exempted by this section.

Gloves & Eye Protection

- Chemical-resistant **gloves** and protective **eyewear** are not required when:
 - Applying in an enclosed cab
 - Using vehicle-mounted or towed equipment with spray nozzles that are located below the employee and directed downward
 - Applying vertebrate pest control baits using long-handled implements that avoid actual hand contact with the bait or potentially contaminated areas of equipment;
 - Working in situations where the handler has no liquid contact with a fumigant. The handler may wear gloves, unless expressly prohibited by pesticide product labeling

Eye Protection

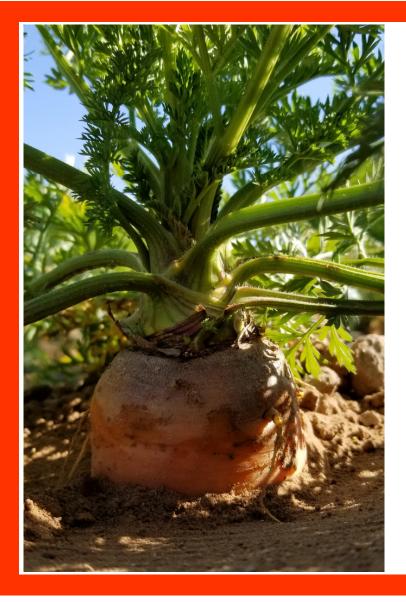
- Protective eyewear is not required when:
 - Applying non-insecticidal lures or baiting insect monitoring traps
 - Applying solid fumigants (including, but not limited to, aluminum phosphide, magnesium phosphide, and smoke cartridges) to vertebrate burrows
 - Applying vertebrate pest control baits that are placed without being propelled from application equipment.



3CCR 6738.4

Closed System

- Protective eyewear, coveralls, chemical-resistant gloves, and a chemical-resistant apron may be worn instead of label PPE when using a closed system to handle pesticide products with the signal word "DANGER" or "WARNING"
- Protective eyewear and work clothing may be worn instead of personal protective equipment required by pesticide product labeling when using a closed system to handle pesticide products with the signal word "CAUTION"



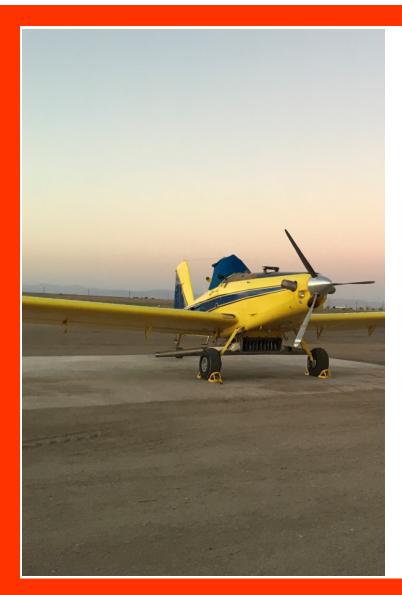
Closed System

 All PPE required by the pesticide product label, restricted material permit conditions, or regulation must be at the worksite during operation of the closed mixing system and available in a condition that provides the intended protection. Protective eyewear must be worn while using a closed mixing system.

3CCR 6738.4

Enclosed Cab

- Work clothing may be worn instead of PPE when occupying an enclosed
- If a filtering **facepiece respirator** or dust/mist filtering respirator is **required** by the pesticide product **labeling**, then no respirator is required to be worn **inside** the enclosed cab if the enclosed cab has a properly functioning air ventilation system.
 - Air system must be maintained in accordance with manufacturer's instructions
- If any other type of respirator is **required by the pesticide labeling**, then the respirator must be **worn inside the enclosed cab**
- If PPE is contaminated by use in a treated area, it shall be removed and stored in a chemical-resistant container, such as a plastic bag, before reentering the cab.



Enclosed Aircraft

- Work clothing may be worn instead of PPE when occupying an enclosed aircraft cockpit.
- **Respiratory** protection is **not required** to be worn when occupying an **enclosed** aircraft cockpit.
- A helmet may be worn instead of chemical-resistant headgear when operating an aircraft.
- A **helmet** with the **face shield** lowered to cover the face may be worn **instead of protective eyewear** when operating an aircraft.

3CCR 6738.4

Personal Protective Equipment Exemptions

PPE YOU MAY USE WITH EXTRA SAFETY EQUIPMENT						
Instead of	If you use	You may use 1				
PPE required by the label or California's rules	Closed mixing system or water-soluble packets for pesticides with a "Danger" or "Warning" signal word	Coveralls, chemical- resistant gloves, chemical- resistant apron, and eye protection				
PPE required by the label or California's rules	Closed mixing system or water-soluble packets for pesticides with a "Caution" signal word	Work clothing (shirt, pants, shoes) and eye protection				
PPE required by the label or California's rules, no respirator required	Enclosed cab	Work clothing				
PPE required by the label, including a filtering face piece or dust/mist filtering respirator, or by California's rules	Enclosed cab with a properly maintained and functioning ventilation system	Work clothing				
PPE required by the label, including a different type of respirator, ² or by California's rules	Enclosed cab	Work clothing and the respirator required by the label				
1 All PPE required by the label or California's rules must be at the work site in case of an emergency.						
2 For example, a half-face or full-face respirator with an organic vapor cartridge.						

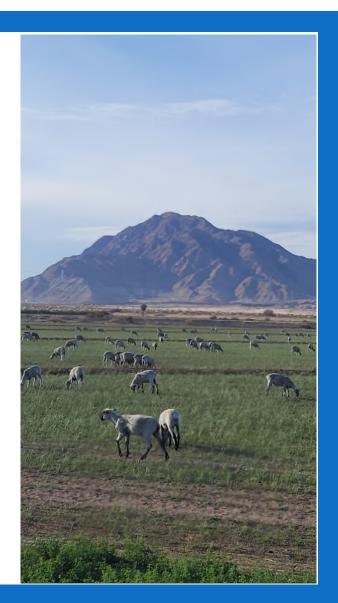
RESPIRATORY PROTECTION

6739

Respiratory Protection

The employer **shall** assure that:

• Employees use approved **respiratory equipment** in compliance with this regulation when handling pesticides where respirators are required by label, restricted material permit condition, or regulation.



3CCR 6739

Respiratory Protection

Multiple requirements



Respiratory Protection Program

Summary of required elements of a respiratory protection program when using pesticides.

1. Is a respirator required by label, permit conditions, regulation, or the employer?	Yes No			
2. Who provides the respirator?		Employer		Employee
3. What type of respirator is it?	Any	Any ¹ , except Filtering Facepiece	Filtering Facepiece	Any
Respirator Program Administrator 3CCR 6000, 6739(a)(2)(I)	Required	NR	NR	
Written Respiratory Protection Program 3CCR 6739(a)	Required	Required ²	NR	
Respirator Selection and Fit Testing 3CCR 6739(c),(e)	Required	NR	NR	
Medical Evaluation 3CCR 6739(d)	Required	Required	NR	
Facepiece Seal Protection 3CCR 6739(f)	Required	NR	NR	
Cleaning, Inspection, Repair, and Storage 3CCR 6739(h),(i),(j)	Required	Required	NR	
Employee Training and Program Evaluation 3CCR 6739(m),(n)	Required	NR ³	NR	
End of Service Life Replacement 3CCR 6739(o)	Required	NR	NR	
Record Keeping 3CCR 6739(p)	Required	Required ²	NR	
Medical Evaluation Questionnaire 3CCR 6739(q)	Required	Required	NR	
Voluntary Respirator Use Posting 3CCR 6739(r)	NR	Required	Required	
Medical Recommendation Form 3CCR 6739(s)	Required	Required	NR	

¹ Includes half-face and full-face elastomeric, supplied-air, SCBA, and powered air-purifying respirators.

² Only medical evaluation and respirator cleaning, storage, and maintenance elements are required.

³ However, training in medical evaluation and respirator cleaning, storage, and maintenance elements is required.

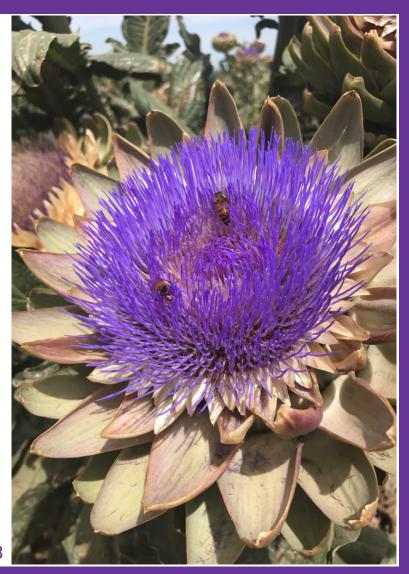
LABELING PPE

FAC 12973

Labeling: PPE

<u>All persons</u> handling registered pesticides

- Review the labeling to determine what PPE is required.
- Observe handlers to see if they are properly using the required PPE.
- Is the PPE in good condition and well fitted?
- Labeling required PPE used by owners/ property operators must meet the maintenance and storage standards listed in 3CCR 6738
- Exemptions: All substitutions and exemptions listed in 3CCR 6738.4



FAC 12973

Laws & Regs Covered

- 3 CCR 6738- Personal Protective Equipment Care.
- 3 CCR 6738.1- Personal Protective Equipment Use.
- 3 CCR 6738.2- Selection of Protective Eyewear.
- 3 CCR 6738.3- Selection of Gloves.
- 3 CCR 6738.4- Personal Protective Equipment Exemptions.
- 3 CCR 6739- Respiratory Protection.
- 3 CCR 6746- Closed Mixing Systems Requirement.
- FAC 12973 Labeling Personal Protective Equipment



THANKYOU

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