Pesticide Protective Gloves

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Pesticide Safety Education Coordinator
UC Statewide IPM Program
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Pesticide Protective Gloves

- Test your identification skills
- Convince you to wear them
- Explain how to choose the right ones
Identify the material in glove #1 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #2 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #3 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #4 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #5 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #6 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #7 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #8 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #9 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
Identify the material in glove #10 (choose one or don’t click if you don’t know)

- Barrier laminate
- Butyl rubber
- Natural rubber
- Neoprene (disposable)
- Neoprene (reusable)
- Nitrile (disposable)
- Nitrile (reusable)
- Polyethylene
- Polyvinyl chloride
- Viton
What parts of your body do you think pesticide can enter?
Which way is it more common for pesticides to enter our body?
SKIN!
What is the MINIMUM Personal Protective Equipment (PPE) required in California?
Why YOU should wear gloves

33% of all handler pesticide illnesses were due to failure to wear PPE!
# Glove Selection

## Glove Category Selection Key

<table>
<thead>
<tr>
<th>Label Code</th>
<th>Material Recommended by CDPR</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1,2,3,4,5,6,7,8</td>
<td>1: Laminate</td>
</tr>
<tr>
<td>B</td>
<td>1,2</td>
<td>2: Butyl</td>
</tr>
<tr>
<td>C</td>
<td>1,2,3,4,7,8</td>
<td>3: Nitrile</td>
</tr>
<tr>
<td>D</td>
<td>1,2</td>
<td>4: Neoprene</td>
</tr>
<tr>
<td>E</td>
<td>1,3,4,8</td>
<td>5: Natural</td>
</tr>
<tr>
<td>F</td>
<td>1,2,3,8</td>
<td>6: Polyethylene</td>
</tr>
<tr>
<td>G</td>
<td>1,8</td>
<td>7: PVC</td>
</tr>
<tr>
<td>H</td>
<td>1,8</td>
<td>8: Viton</td>
</tr>
</tbody>
</table>

All but Laminate and Polyethylene must be 14 mils or thicker
Glove Selection – Labels

Personal Protective Equipment

Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber, neoprene rubber, or Viton. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators, and other handlers must wear:

- long-sleeved shirt and long pants,
- shoes and socks,
- chemical resistant gloves
- chemical resistant apron when mixing or cleaning equipment, or otherwise exposed to the chemical.

See engineering controls for additional recommendations.

Speedzone: barrier laminate, nitrile rubber, neoprene rubber, or viton
Category E
Glove Selection – Labels

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile or butyl
- Shoes plus socks

Turflon Ester:
nitrile or butyl
No category
Glove Selection – Labels

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Applicators and Other Handlers Must Wear: Long-sleeved shirt & long pants; shoes plus socks. When not using a closed system, wear apron and chemical-resistant gloves made of any waterproof material for mixing/loading activities. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Acramite 4SC: No gloves
Glove Selection

• Always follow the pesticide label
• BUT!
• Always remember that CA requirements are generally more strict than label requirements
**GEMPLERS** Unlined Nitrile Gloves

Combine chemical resistance with excellent dexterity. 100% nitrile gloves provide excellent protection for handling most agricultural chemicals, solvents, acids and caustics. Nitrile resists snags, punctures, abrasions and cuts better than other glove polymers. A nonslip grip makes wet or slippery work easier, while an ergonomic shape enhances fit and comfort. Unlined gloves can be washed and reused and are for use with pesticides whose label refers to Category A, C, E or F on the EPA Chemical Resistance Category Selection Chart.

**13”, 15-mil Nitrile Gloves**

The 13”, 15-mil gloves offer increased dexterity that simplifies jobs like working with sprayer nozzles or other small parts. Sold by the pair, in packs of 12 pair or in a convenient wall mount dispenser box with 36 pair. Imported. See price chart below for available sizes: XS (7), S (8), M (9), L (10) or XL (11).

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
<th>Size</th>
<th>Item No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13” 15-mil</td>
<td>1 pr.</td>
<td>XS, S, M or XL</td>
<td>227G</td>
<td>$3.00/pr.</td>
</tr>
<tr>
<td>13” 15-mil</td>
<td>12 pr.</td>
<td>XS, S, M, L or XL</td>
<td>1279</td>
<td>$3.95/pr.</td>
</tr>
<tr>
<td>13” 15-mil</td>
<td>36 pr/box</td>
<td>S, M, L or XL</td>
<td>10212</td>
<td>$91.30/box</td>
</tr>
<tr>
<td>19” 22-mil</td>
<td>1 pr.</td>
<td>L or XL</td>
<td>4082K</td>
<td>$70.70/pr.</td>
</tr>
</tbody>
</table>

**19”, 22-mil Nitrile Gloves**

The 19”, 22-mil gloves offer added protection to the forearm where chemical splashes may occur. The tapered wrist ensures a comfortable and natural fit. Pairs are individually bagged. Imported. Specify size: L (9) or XL (10).

*“I am a state-licensed applicator of herbicides, which I use as a national park volunteer on invasive plants. I consider these gloves essential personal protective equipment.”*

— Fred, Richfield, OH

**DISPOSABLE GLOVE LINERS**

**Fingerless, Disposable Cotton Glove Liners**

100% natural, hypoallergenic cotton ribbed knit material allows air to circulate between your hand and the glove, keeping perspiration off your palm for all-day comfort. Unique, fingerless design retains tactile dexterity and reduces bulk inside the outer glove. Acceptable for food processing applications when used as a liner under an approved outer glove. 8¼” L ambidextrous glove liners come 100 per box. One size fits all imported.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>1-4</th>
<th>5-11</th>
<th>12+</th>
</tr>
</thead>
<tbody>
<tr>
<td>24825</td>
<td>$19.95/box</td>
<td>$19.00/box</td>
<td>$16.10/box</td>
</tr>
</tbody>
</table>

**Full-finger Disposable Cotton Glove Liners**

The EPA allows you to wear separable glove liners beneath chemical gloves for up to 10 hours or until contaminated. Wear inside rubber/chemical gloves to absorb perspiration. Cotton liners help to protect hands from dermatitis and other skin irritations. These liners are also excellent as a barrier from the cold when using for cold-weather applications. Sold in dozen pair packs. Available in Men’s and Women’s size. Imported.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>1-11</th>
<th>12-24</th>
<th>25+</th>
</tr>
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<tr>
<td>Men’s WL6701</td>
<td>$10.00/12oz.</td>
<td>$9.20/12oz.</td>
<td>$8.50/12oz.</td>
</tr>
<tr>
<td>Women’s WL6702</td>
<td>$10.00/12oz.</td>
<td>$9.20/12oz.</td>
<td>$8.50/12oz.</td>
</tr>
</tbody>
</table>
### UNLINED CHEMICAL GLOVES

<table>
<thead>
<tr>
<th>Glove Type</th>
<th>Description</th>
<th>Price</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Value Master™ 12” Rubber Latex Gloves</strong></td>
<td>For diluted, low-toxicity pesticides. Used by canneries and food processors.</td>
<td>$18.00/box</td>
<td>12”</td>
</tr>
<tr>
<td><strong>Ansell 12” Economical Neoprene Gloves</strong></td>
<td>These unlined neoprene gloves offer excellent resistance to a wide range of chemicals, including oils, acids, caustics and solvents. Gloves are case hardened to increase chemical and abrasion resistance and feature a textured finish to improve grip on slippery surfaces. Curved fingers and contoured palm for long-wearing comfort. For use with pesticides that have labels referring to Category A, C, and E on the EPA’s Chemical Resistance Category Selection Chart.</td>
<td>$9.00/box</td>
<td>18”</td>
</tr>
<tr>
<td><strong>Chloro-Flex™ II 18” Neoprene Gloves</strong></td>
<td>Thick rolled cuff for easy on/off. 30-mil heavy-duty unlined neoprene gloves offer excellent protection against agricultural chemicals, oils, acids, resins, solvents, caustics and other petroleum-based materials. Ideal for applications involving oil spill cleanup and gear assembly. For use with pesticides that have labels referring to Category A, C and E on the EPA’s Chemical Resistance Category Selection Chart.</td>
<td>$15.00/box</td>
<td>18”</td>
</tr>
<tr>
<td><strong>Heavy Natural Rubber Gloves</strong></td>
<td>Unlined natural rubber gloves feature a smooth grip and a rolled cuff to catch drips. Extra-large sizing fits big hands and open cuffs allow for easy on/off. For use with pesticides that have labels referring to Category A on the EPA’s Chemical Resistance Category Selection Chart.</td>
<td>$10.00/box</td>
<td>18”</td>
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<tr>
<td><strong>Honeywell 11” Butyl Gloves</strong></td>
<td>For certain high-toxicity pesticides, fumigants and anhydrous ammonia. Gloves offer good dexterity and broad-spectrum ag chemical protection. 11” length unlined; rough finish. For use with pesticides that have labels referring to Category A, B, C, D, E, F, G, or H on the EPA’s Chemical Resistance Category Selection Chart.</td>
<td>$14.00/box</td>
<td>18”</td>
</tr>
<tr>
<td><strong>Ansell Barrier™ 16” Chemical-resistant Multi-hazard Gloves</strong></td>
<td>Five-layer laminated Barrier™ unlined gloves resist permeation and breakthrough to the broadest range of chemicals when the chemical hazard is not clearly identified. Often used as a liner inside leather gloves where mechanical damage is suspected. 2.5-mil; 16” L. For use with pesticides that have labels referring to Categories A, B, C, D, E, F, G, or H on the EPA’s Chemical Resistance Category Selection Chart.</td>
<td>$14.00/box</td>
<td>18”</td>
</tr>
<tr>
<td><strong>Honeywell 13” unlined nitrile gloves</strong></td>
<td>Offer improved touch sensitivity. Nitrile offers stronger wear resistance to cuts, snags and abrasions than other elastomers, resulting in dependable, long-lasting protection. These gloves also resist common solvents, oils and acids. Their flexible curved hand design improves dexterity and provides a natural fit. Suggested uses include food processing, chemical processing, parts cleaning and automotive assembly. USDA accepted for food handling.</td>
<td>$14.00/box</td>
<td>18”</td>
</tr>
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Save on every order with GEMPLET’S Shipping Saver! See order form for details.
### Glove Selection – Nitrile

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<td>8: Viton</td>
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All but Laminate and Polyethylene must be 14 mils or thicker.
Glove Selection

http://www.gemplers.com/compare/nitrile-gloves
## Glove Selection

| Nitrile Gloves | Price       | Brand       | Qty | Color        | Dispos/Reusable | Sizes Available | Ambidextrous | Powdered Y/N | Thickness | Length | Lined Y/N | Lining Type | FDA Approved | Medical Grade Y/N |
|---------------|-------------|-------------|-----|--------------|-----------------|----------------|--------------|--------------|-----------|----------|-----------|-------------|--------------|---------------|------------------|
| 10-mil Nitrile Glove - 13”L 11966 | $2.10 | North Safety | Pair | Blue/Green  | Reusable  | 8, 9, 10, 11  | No           | No           | 10 mil     | 13”      | N         | NA          | Y             | N              |
| GEMPLER'S® Nitrile Gloves 22-mil, Unlined, 1 Pair 4082K | $10.70 | GEMPLER'S  | Pair | Blue/Green  | Reusable  | L, XL         | N            | N            | 22 mil     | 19”      | N         | NA          | N             | N              |
| GEMPLER'S® Nitrile Gloves, 15-mil, Unlined WEB727G | $3.00 - $91.30 | GEMPLER'S  | Pair | Blue/Green  | Reusable  | XS, S, M, L, XL | N            | N            | 15 mil     | 13”      | N         | NA          | N             | N              |
Glove Liners
Take-Home Messages

• Wear chemical resistant gloves for all handling activities
• Consult the label and CA requirements for the appropriate glove material
• Check manufacturers’ specifications for thickness, uses, lining type, etc.
Questions?

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(530) 750-1251