

2005

Pesticide Safety 2005 - Knowing More About Pesticides 2005

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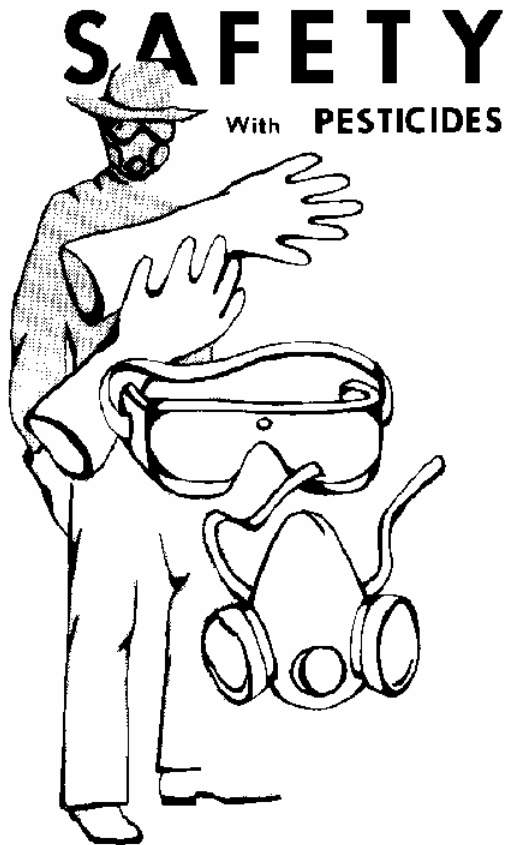
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Recommended Citation

Sylvia, Martha, "Pesticide Safety 2005 - Knowing More About Pesticides 2005" (2005). *Cranberry Station Extension meetings*. 72.
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Pesticide Safety



Marty Sylvia

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Cranberry Station



How to Keep Safe

- ◆ Reduce Your Risk
- ◆ Safety Practices
- ◆ Personal Protective Equipment

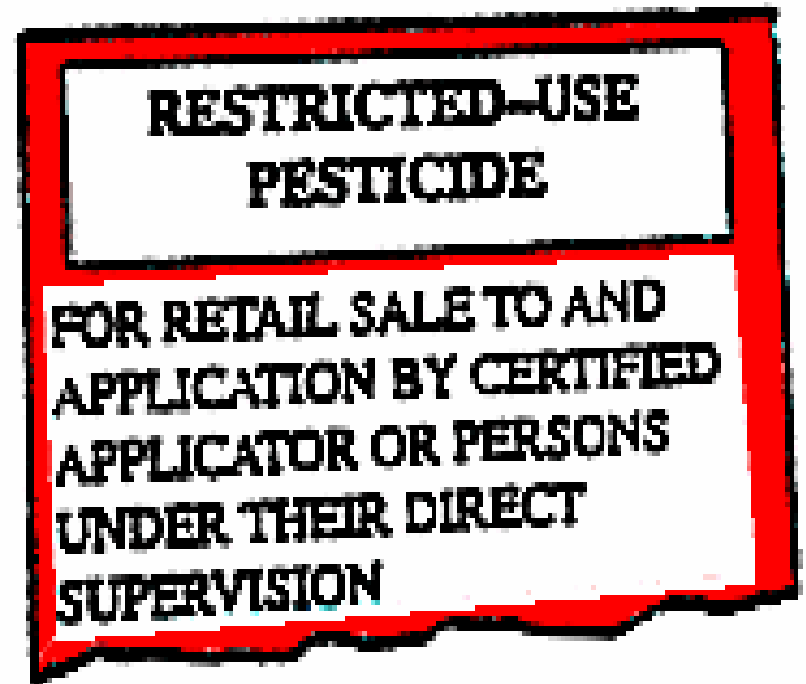
Reduce Your Risk

- ◆ Read the label.
- ◆ Wear at least the PPE that is recommended
 - Protect what label tells you to (eyes, lungs...)
- ◆ Use common sense.
- ◆ Don't be lazy!



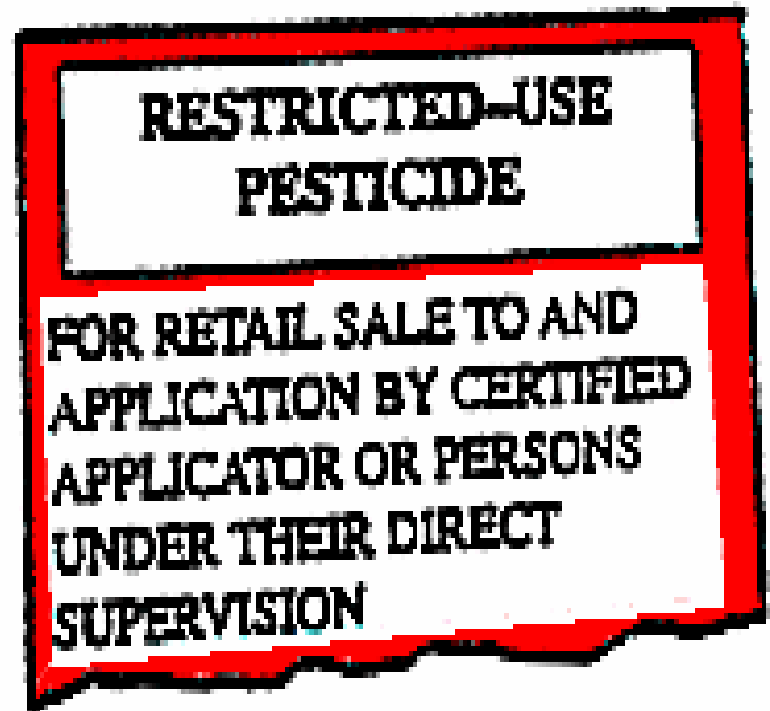
Restricted Use Pesticides

- ◆ Not all restricted use pesticides are because of human toxicity.
- ◆ Know which ones are!!
- ◆ Lorsban, Diazinon, Guthion



Restricted Use Pesticides

- ◆ Chlorothalonil
- ◆ Actara
- ◆ Intrepid
- ◆ Kerb
- ◆ Simazine (Princep, Caliber)
- ◆ Diazinon, Lorsban, Guthion





Reduced risk pesticide products

- Biologicals or non-chemical alternatives
- low toxicity compounds
- low rate products

Reduced risk handling systems

- formulations and packaging eliminate handling
- containers reduce spills and accidents



Derma**l** Exposure

- ◆ If a pesticide is spilled on someone's skin, you should immediately rinse with plenty of water.
- ◆ Penetrants and oils may allow faster movement through the skin.
- ◆ Cuts and abrasions allow faster absorption.



GUTHION - DANGER

When handling the concentrate...

- ◆ Wear a protective suit that covers all parts of the body except head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes or boots. Wear goggles or a face shield and a NIOSH approved pesticide respirator



GUTHION - DANGER

During application, while repairing or cleaning equipment, or during reentry before the REI is up..

- ◆ Wear a protective suit that covers all parts of the body except head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes or boots. Wear goggles or a face shield.



Personal Protective Equipment

PPE

still the best way to reduce exposure
and reduce your risk!



Personal Protection Equipment

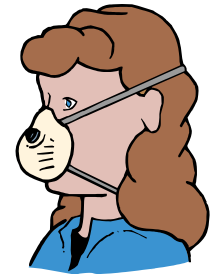
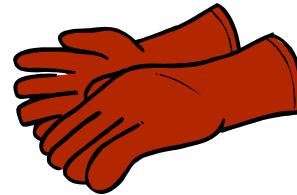
- ◆ Coveralls
- ◆ Boots
- ◆ Gloves
- ◆ Hat
- ◆ Eyewear
- ◆ Respirator
- ◆ Apron

Personal Protective Equipment Selection

- ◆ Companies are required to make available to all workers whatever protective equipment is required for handling the chemicals they use
- ◆ PPE should be identified
- ◆ training should be provided
- ◆ company should implement and enforce PPE program

Personal Protective Equipment

- ◆ Must be provided by employer





CLOTHING/COVERALLS

- ◆ Longsleeved shirt and pants
 - Woven or Nonwoven long sleeved shirt and long legged pants
- ◆ Coverall over shirt and pants
- ◆ Chemical resistant protective suit
 - Rubber, plastic, barrier coated
- ◆ Waterproof suit



CLOTHING/COVERALLS

- ◆ EVERY pesticide label requires long-legged pants and long-sleeve shirt.
- ◆ Coveralls always provide more protection.



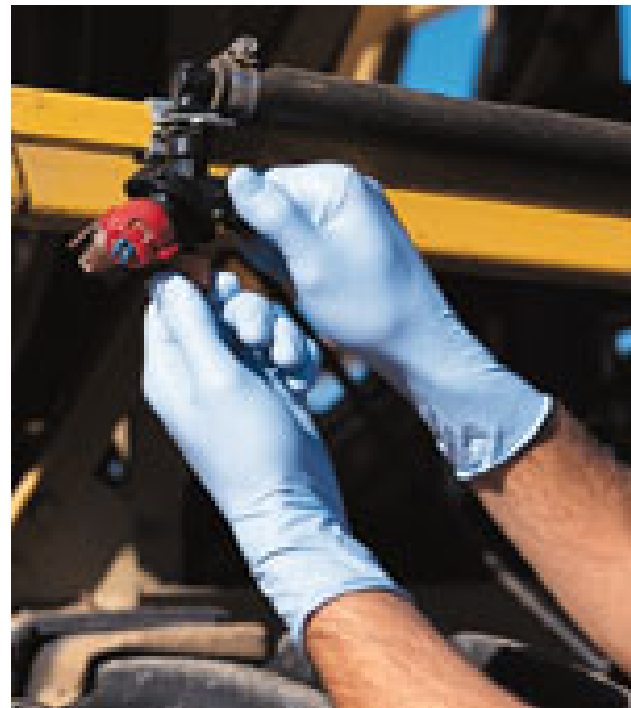
Availability



- ◆ Gemplers
 - ◆ RASP
 - ◆ DECRAN
 - ◆ RF MORSE
-
- ◆ Coveralls always provide more protection

GLOVES

- ◆ Chemically Resistant
 - Nitrile
 - Butyl
 - Neoprene
 - Natural Rubber
 - Barrier Laminate



Disposable Nitrile gloves

FOOTWEAR

- ◆ ~~Shoes - Leather, Canvas, Fabric~~
- ◆ Chemical Resistant Footwear or Boots:
 - Chemical Resistant Shoes
 - Chemical Resistant Boots
 - Chemical Resistant Shoe Covering



BOOTS



PVC BOOTS

BOOTS



VINYL
BOOTS

EYEWEAR

- ◆ Protective Eyewear
 - Shielded Safety Glasses
 - Face Shield
 - Goggles
 - Full Face style respirator





KOCIDE DF - DANGER

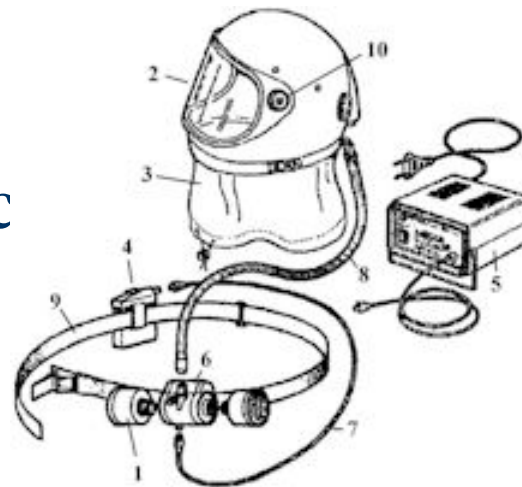


- ◆ Wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Use impervious gloves, arm covers, and apron.
- ◆ **EYE PROTECTION** – wear splash-proof or dust-resistant safety goggles to prevent contact with this substance

Respirators

MUST HAVE NIOSH/MSHA APPROVAL

- ◆ Dust/mist filtering - dusts, powders, mists, and sprays.
TC-21C
- ◆ Vapor removing - gases and vapors.
 - TC-23C - cartridge for organic vapors + prefilter
 - TC-14G - canister for pesticides/organic vapors



Respirators



Other Protection

- ◆ Hat or Hood
 - Chemical resistant
 - Full hood as part of respirator
- ◆ Apron
 - Chemical resistant





Clean Equipment!!

- ◆ Protective equipment should be cleaned *after every use*.

Storage

- ◆ Keep chemicals in original containers and tightly sealed.





Recommendation for Storage

- ◆ Glass bottles should always be stored within a metal can, not necessarily closeable, such as a coffee can. In the event the bottle breaks, the spillage will be contained.
- ◆ Do not carry over pesticide products whose labels have been lost or are not complete and legible.



Recommendation for Storage

- ◆ Be sure that caps are tightened securely on all bottles and cans.
- ◆ Eliminate leaky containers.
- ◆ Above all, keep pesticide materials in a locked room or cabinet and out of reach of children and animals.



Storage



- ◆ It is not recommended to store pesticides longer than two years.

Shelf life

Pesticide

(years)

Sevin, wp

2-3

flowables settle

Diazinon

5-7

Imidan, WP

2-3

Casoron, 4G

at least 2

Roundup, liquid

at least 2

Do not freeze

Kerb, WP

at least 2

Princep, WP

indefinite



Recommendation for Storage

- ◆ Do not store weed killers close to other materials (such as wettable powders, dust formulations or granular insecticides).
- ◆ Some weed killers such as 2,4-d and 2,4,5-t are highly volatile and can contaminate other materials (especially when confined in close quarters).



Recommendation for Storage

- ◆ Store wettable powders, dusts and granules of pesticide products in a cool, dry place.
- ◆ Keep temperatures below 100 degrees F.
- ◆ Do not allow liquids to freeze (glass containers could break).



Recommendation for Storage



- ◆ Always purchase pesticides in a container size small enough to be used up within a season or less.
- ◆ Reduce storage problems.



Hazardous Waste Collections

- ◆ MDAR has funding for 2005
- ◆ Amnesty to dispose of pesticides
- ◆ Summer clean up on Cape Cod
- ◆ Fall clean up – Plymouth area
- ◆ Limit of what fits in a 55 gallon drum
- ◆ Announcements will come through CCCGA and Cranberry Station