



**LESSON 9 - MANAGEMENT OF ARTHROPODS
THROUGH NON-CHEMICAL (SANITATION)
AND CHEMICAL PRACTICES**

Lesson Objectives (1)

- ***Identify non-chemical (sanitation) methods of controlling arthropods.***
- ***Identify properties of pesticides.***
- ***Identify the factors to consider when assessing the risk associated with the use of pesticides.***
- ***Identify safety precautions associated with the use of pesticides.***

Lesson Objectives (2)

- ***Describe disposal methods for pesticides and their containers.***
- ***Select, in order, the steps required to prepare the 2-gallon sprayer for use.***
- ***Select, in order, the steps required to operate the 2-gallon sprayer.***
- ***List the measures taken to maintain the 2-gallon sprayer.***

Sanitation Practices



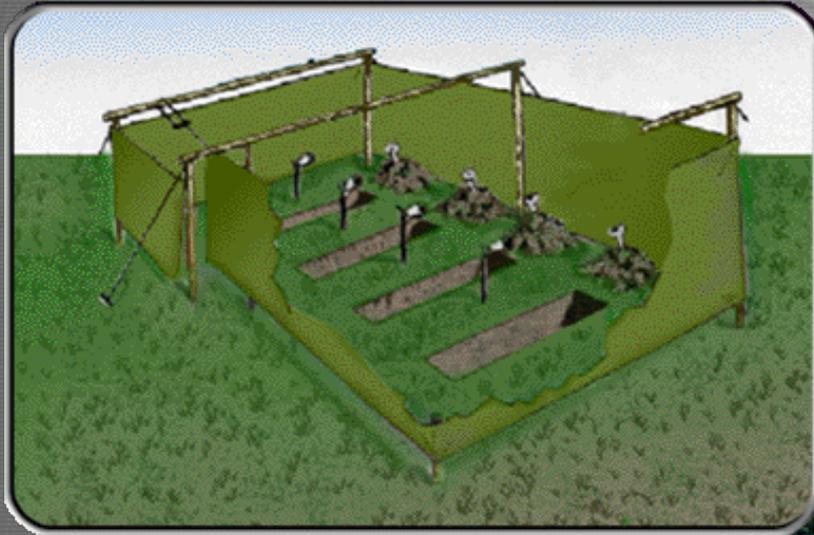
- ***These are the non-chemical means of controlling pests.***

Rodent Control



- ***Rodents carry many different parasites.***

Waste Disposal



- ***Proper waste disposal is essential to controlling flies and roaches.***

Animal Nesting/Feeding Areas



Chemical Practices



- *These procedures should only be used to **AUGMENT** proper sanitation practices.*

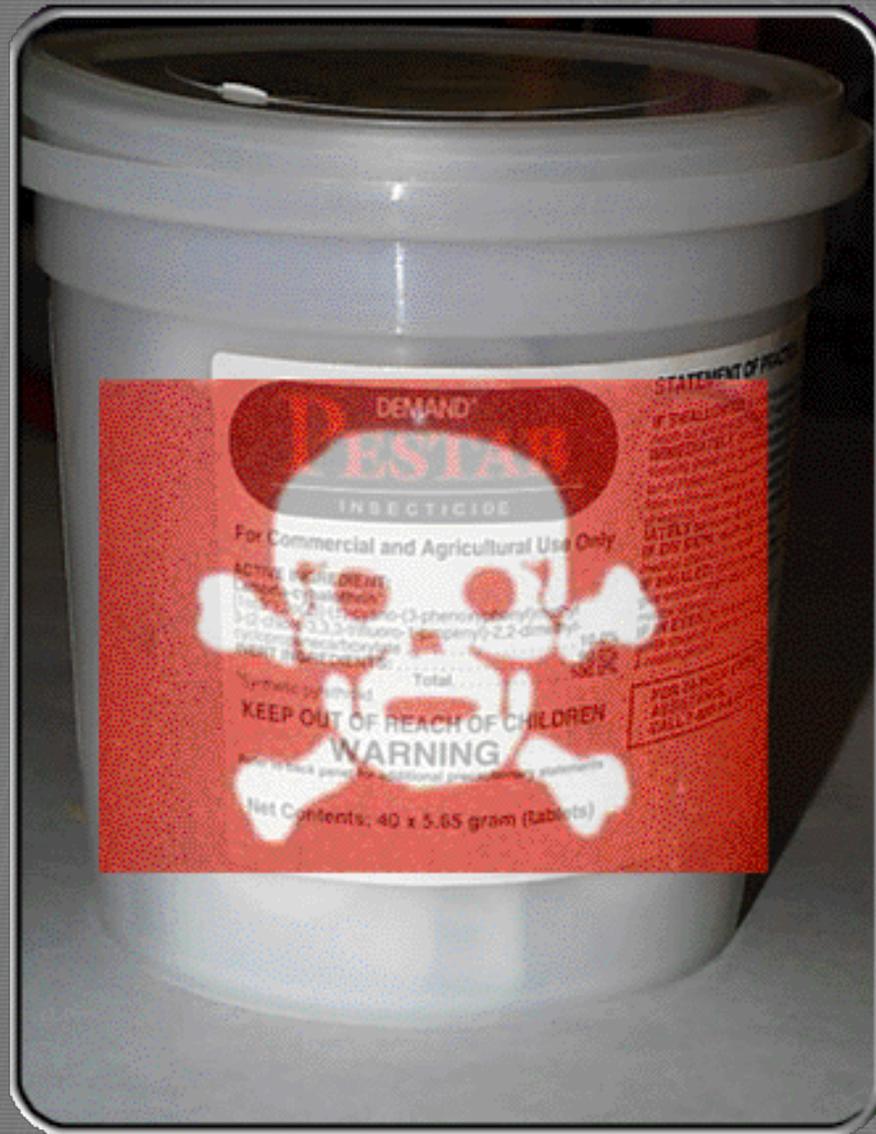
Properties of Pesticides



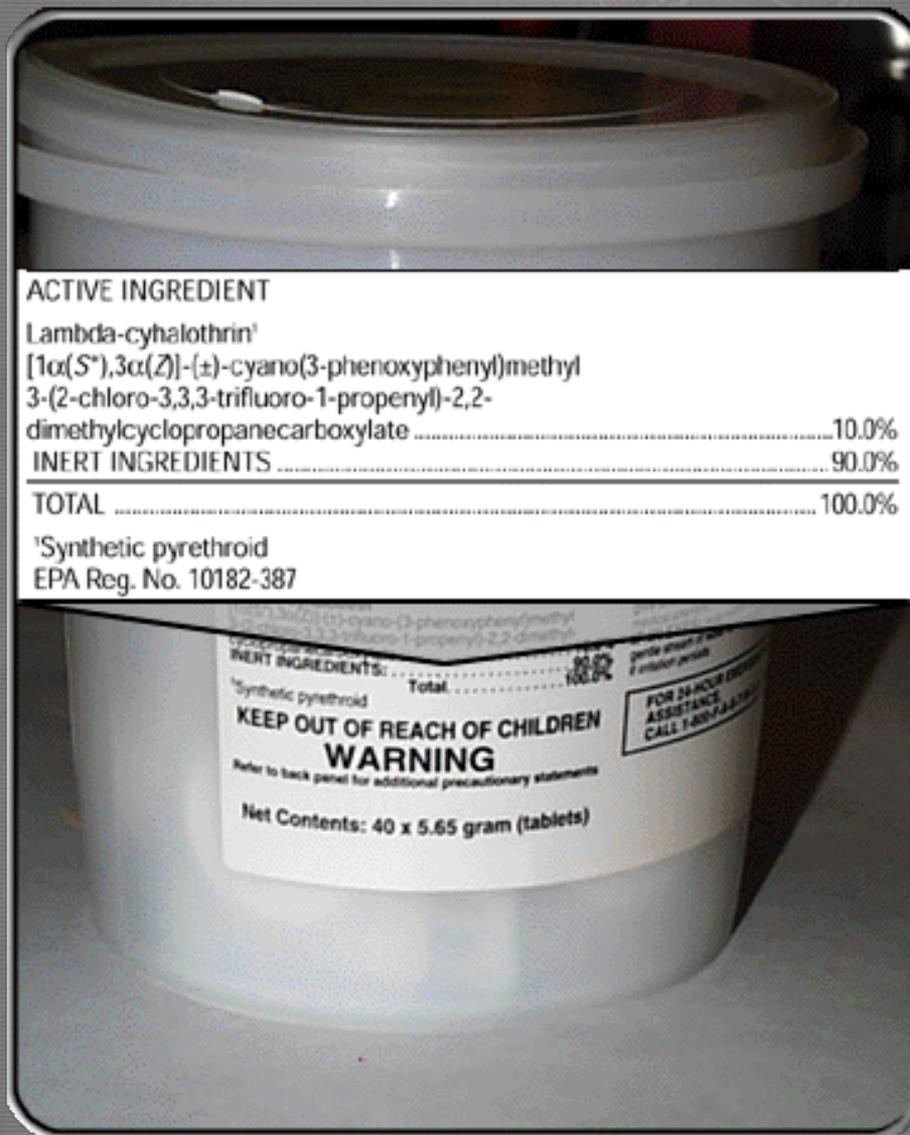
Pesticides

- *Are toxic.*
- *Are often mixed with solvents.*
- *Can be absorbed through the skin.*

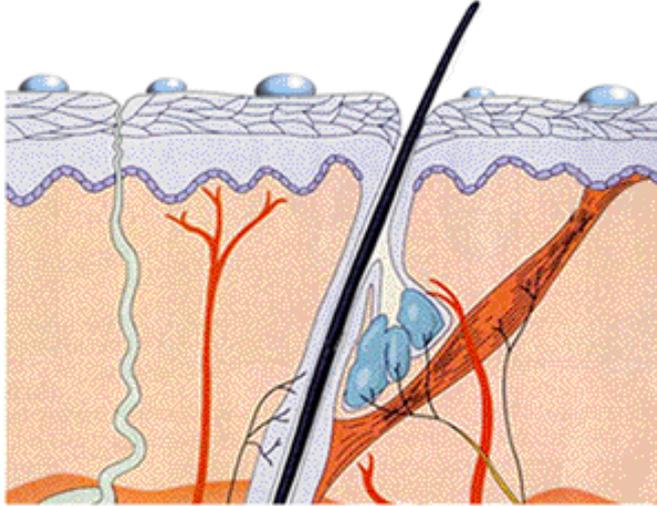
Pesticides are Toxic



Pesticides and Solvents

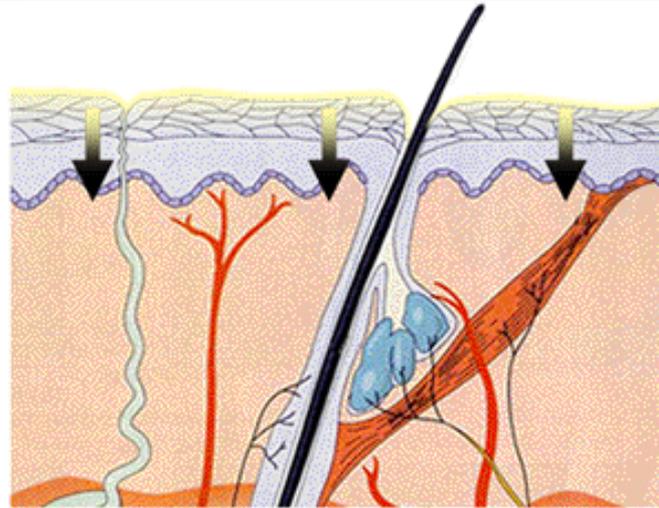


Pesticide Absorption



Skin repels water

...but absorbs oils.



Safety Precautions

ZENECA Professional Products
ZENECAT PESTAB
INSECTICIDE

**KEEP OUT OF REACH OF CHILDREN
WARNING**

STATEMENT OF INDUSTRIAL TOXICITY

PRECAUTIONARY STATEMENTS

WARNING

HAZARD IDENTIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

ZENECA Professional Products



Disposal of Pesticide Containers



- ***Triple-rinse the container.***
- ***Crush or puncture it so it can't be reused.***

Triple-rinse Procedure



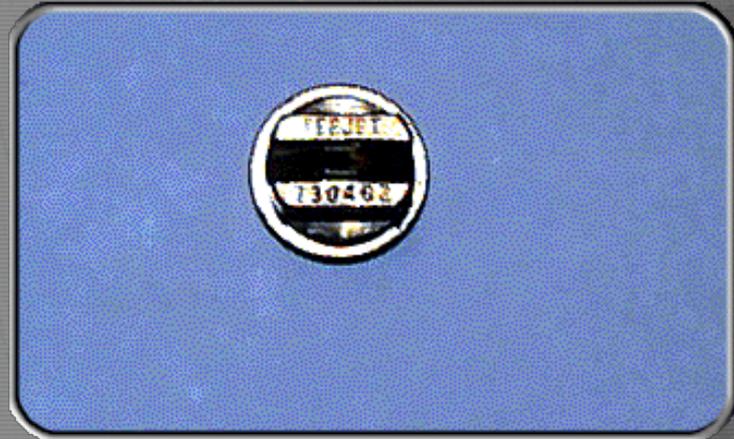
- ***Fill container with water.***
- ***Pour rinse water into 2-gallon sprayer.***
- ***Repeat two more times.***

Using the 2-gallon Sprayer



- ***This sprayer comes in 1- or 2-gallon capacities.***

Sprayer Components - Spare Parts



➤ ***Always have 3 sets of spare parts on hand.***

Sprayer Components - Pressure Gauge



- ***Newer models come equipped with pressure gauges.***
- ***You can order pressure gauges for older models.***

Prepare to Spray - Step 1



- ***Mix the pesticide right in the sprayer.***
- ***Be sure to follow all label instructions.***

Prepare to Spray - Step 2

SOLID STREAM NOZZLE



HOLLOW CONE NOZZLE



FULL CONE NOZZLE



FLAT FAN NOZZLE



➤ ***Select the nozzle that suits your needs.***

Solid Stream Nozzle



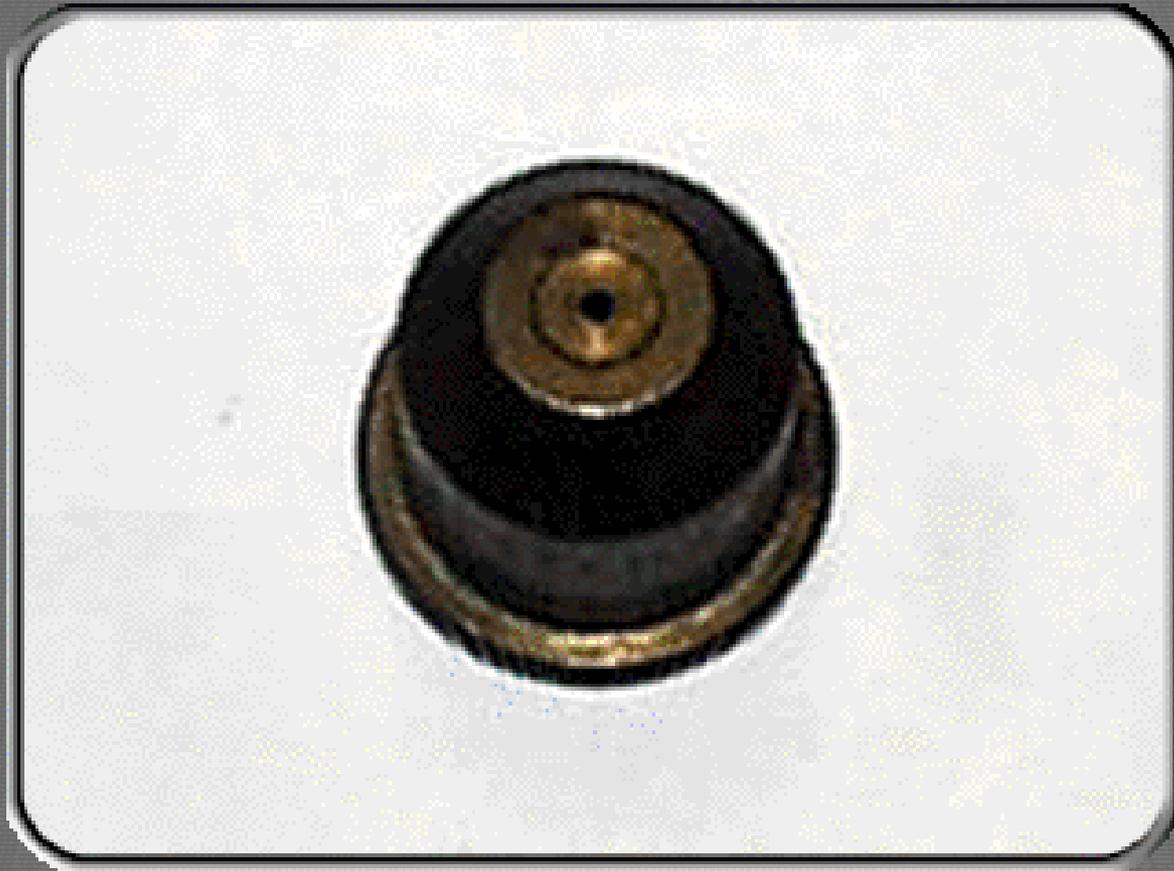
- ***Best suited for treating cracks and crevices.***

Hollow Cone Nozzle



- ***Best suited for treating large areas that need light coverage.***

Full Cone Nozzle



- ***Best suited for treating large areas that need heavy coverage.***

Flat Fan Nozzle



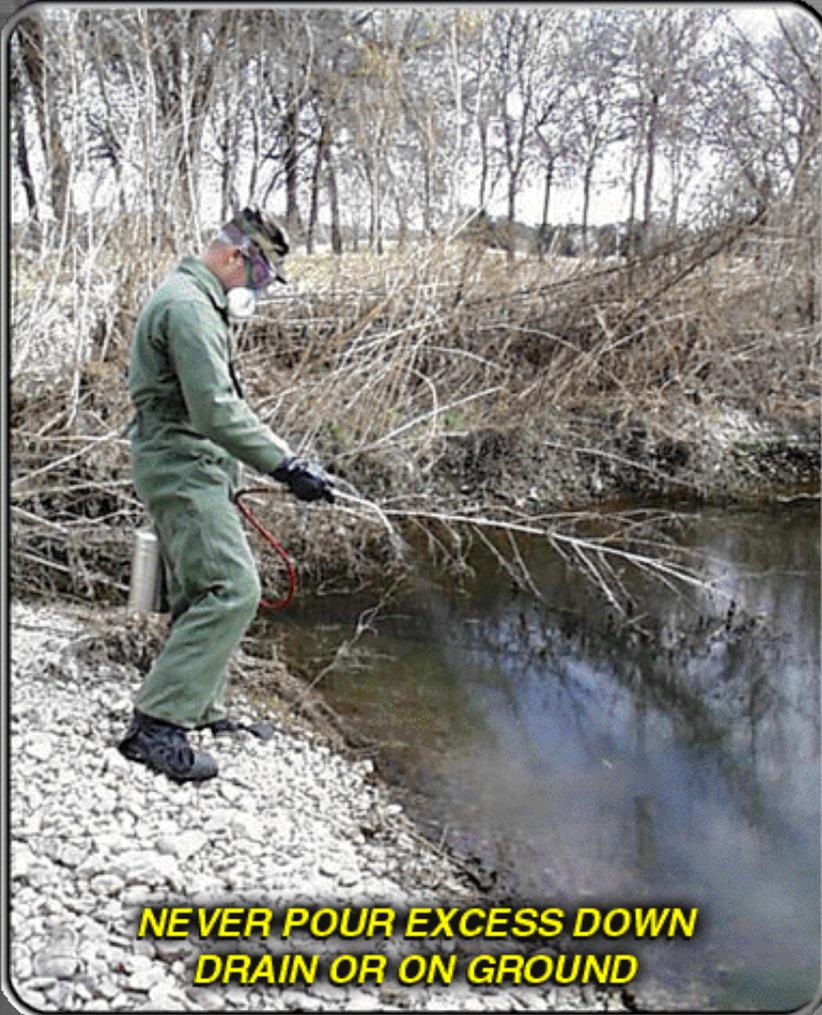
- ***Best suited for treating flat surfaces that need even coverage.***

Prepare to Spray - Step 3



➤ ***Pressurize the sprayer to 40 psi.***

Sprayer Operation



***NEVER POUR EXCESS DOWN
DRAIN OR ON GROUND***

- ***Move the wand in a sweeping motion for even coverage and to minimize run-off.***

Sprayer Maintenance



- ***Sprayer maintenance is an operator responsibility.***

Sprayer Maintenance - Step 1



- ***Rinse the sprayer after each use.***
- ***Spray rinse water over treated area.***

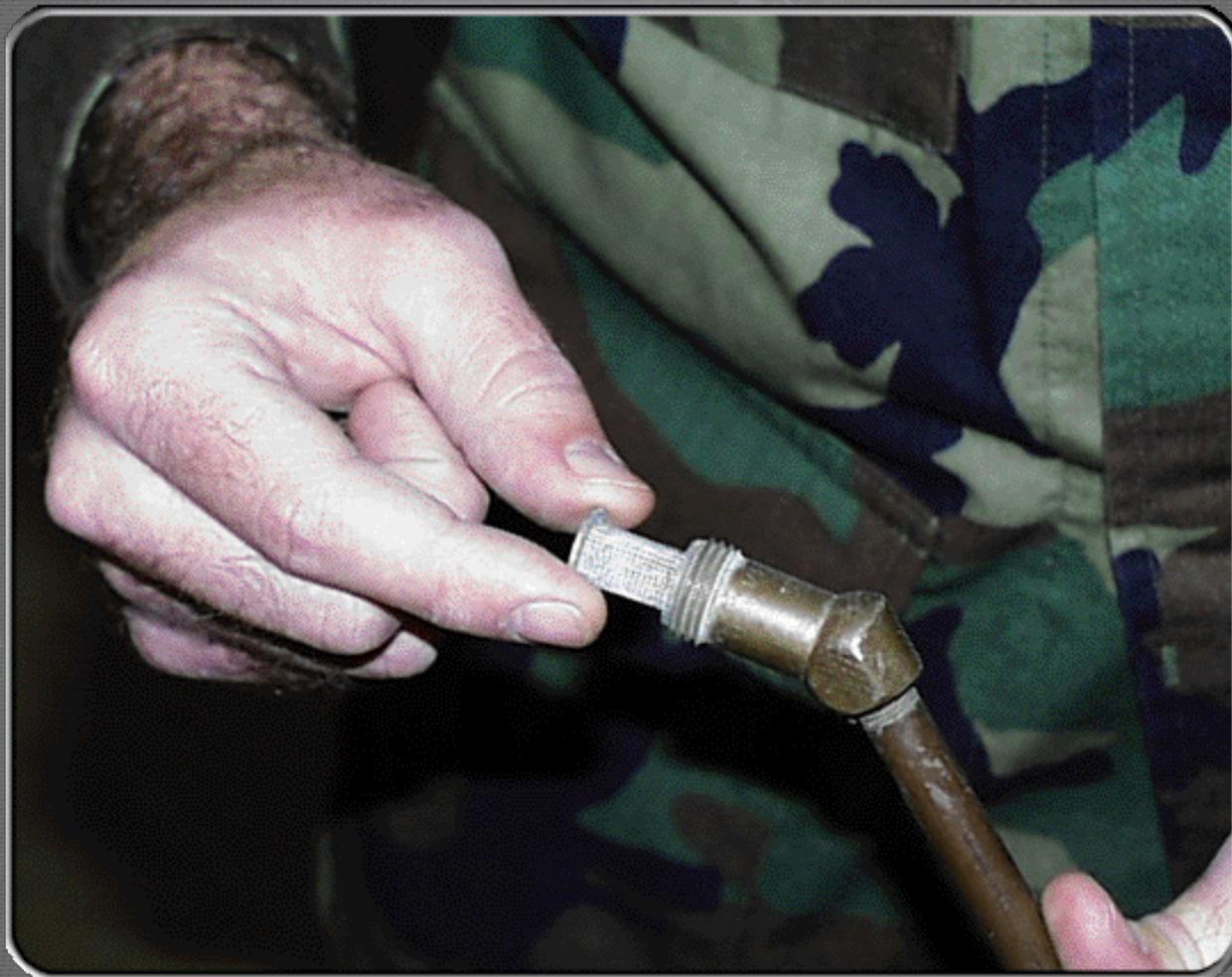
Sprayer Maintenance - Step 2



- ***Wipe the outside of the sprayer to prevent corrosion.***

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Sprayer Maintenance - Step 3



➤ ***Replace worn parts as needed.***

Demonstration - Maintenance Procedures



1 ▶ Remove cylinder

3 ▶ Clean dirt



5 ▶ Pump and check valve



2 ▶ Remove cylinder valve

4 ▶ Replace valve



SUMMARY