

Measuring, Mixing and Loading

Keys to
Improving Results
with
Plant Protection
Products



Topics

- Measuring Differences between Dry vs Liquid PPP
- WALES Method for Mixing
- Technologies to Improve Safety

You're in the right place...

If you
want to

Measure
accurately

You're in the right place...

If you
worry about

Regulatory
compliance

Cucumber Beetle Damage

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Apple Bitter Rot Damage

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Over Application



Pesticide Formulation Types

- **DRY PESTICIDES**
- Dusts, dry application
- **GR, G:** Granules, dry application
- **WG:** mix with water for spray application
 - **DF** - Dry Flowable
 - **WDG** - Water Dispersible Granule
 - **WP:** Wettable Powders
- **LIQUID PESTICIDES**
- **LIQUID FLOWABLES**
 - **SC:** Suspension Concentrates
 - **SE:** Suspo-emulsions
- **EC:** Emulsifiable Concentrates.
- **SN:** Solutions
- **SL:** Soluable Liquids

The Label is the Law

Restricted Use Designation 1	RESTRICTED USE PESTICIDE For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.									
Trade Name 2	VAPORIZE WP									
Formulation 3	WATER SOLUBLE GRANULES									
Mode of Action 4	GROUP 10 INSECTICIDE									
Active ingredients 5	ACTIVE INGREDIENT: Vaporin	By Wt.								
Other ingredients 6	2-Vaporizin-N-dihydrogen-monoxide .. 12.0%									
	OTHER INGREDIENTS: 88.0%									
Net Contents 7	NET CONTENTS 5 lb									
EPA Reg. No. 8	EPA Reg. No. 123-4567	EPA Est. No. 123								
Manufacturer 9	AGRICULTURAL CHEMICAL COMPANY 1234 Industrial Drive Logan, UT 84321									
Signal Word 10	CAUTION									
Keep out of Reach of Children 11	KEEP OUT OF REACH OF CHILDREN									
First Aid 12	<table border="1"> <thead> <tr> <th colspan="2">FIRST AID</th> </tr> </thead> <tbody> <tr> <td>If swallowed:</td> <td>Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor.</td> </tr> <tr> <td>If in eyes:</td> <td>Hold eye open and rinse with water for 15-20 minutes.</td> </tr> <tr> <td>If inhaled:</td> <td>Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration.</td> </tr> </tbody> </table>		FIRST AID		If swallowed:	Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor.	If in eyes:	Hold eye open and rinse with water for 15-20 minutes.	If inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration.
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	<p>PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS Harmful if swallowed. Avoid contact with skin and eyes.</p> <p>PERSONAL PROTECTIVE EQUIPMENT (PPE) All applicators and other handlers must wear: • Long-sleeved shirt and long pants. • Shoes plus socks • Chemical resistant gloves</p> <p>USER SAFETY RECOMMENDATIONS Wash hands before eating, drinking, or chewing gum. Wash PPE separately from other laundry.</p> <p>ENVIRONMENTAL HAZARDS This product is toxic to aquatic invertebrates. Do not apply directly to water. Do not apply this product to blooming crops or weeds while bees are actively foraging.</p> <p>PHYSICAL OR CHEMICAL HAZARDS Combustible - Do not use or store near heat or open flame.</p> <p>DIRECTIONS FOR USE It is a violation of Federal law to use this product in a manner inconsistent with its labeling</p> <p>AGRICULTURAL USE REQUIREMENTS Use this product only in accordance with its labeling and with the Worker Protection Standard.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p> <p>STORAGE AND DISPOSAL Pesticide Storage Do not store in or around home. Keep out of reach of children. Store in a cool, dry place.</p> <p>Pesticide Disposal Do not reuse or refill this container. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.</p>	<p>13 Precautionary Statements</p> <p>14 Directions for Use</p> <p>15 Storage and Disposal</p>								

The Label is the Law

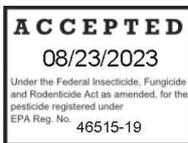
Super K-GRO Malathion 50 Insect Spray EPA Reg. No. 46515-19

2/7/23

Super K-GRO Malathion 50 Insect Spray

[Controls listed insects in and around garden • Makes up to 48 gallons of spray • Kills listed leaf eating insects • Protects listed ornamentals, [flowers, shrubs,] fruits and vegetables from aphids, red spider mites, mealybugs, thrips, scales, whiteflies and other listed unwanted insects • Kills listed insects on roses, flowers, shrubs, vegetables and fruits]

For homeowner outdoor residential use only.



Active Ingredients:	
Malathion	50%
Other Ingredients*	50%
TOTAL	100%

*Contains Xylene range aromatic solvent.

Keep Out of Reach of Children

CAUTION See back for First Aid and Precautionary Statements

NET CONTENTS 1 pint/473 mL [1 quart/946 mL]
1 pint contains 0.53 lbs. of Malathion
[1 quart contains 1.07 lbs. of Malathion]

[Bracketed text] = Optional language

OPTIONAL PRODUCT FACT BOX

What It Does:

Protects listed ornamentals, fruits and vegetables from aphids, red spider mites, mealybugs, thrips, scales, whiteflies and other listed unwanted insects

Where to Use:

Outdoors on Roses, Flowers, Shrubs, Vegetables and Fruits

Questions & Comments:

Call 1-800-917-5438 or visit our website at www.spectracide.com

PESTS CONTROLLED

Aphids, Bagworms, Box elder bugs, Fourlined leaf bugs, Japanese beetle adults, Grape leafhoppers, Leafhoppers (Bean, Potato), Leafrollers (Fruitree, Red-banded, Strawberry), Moths (Bud, Codling), Oak kermes, Pear psyllids, Plum curculio, Rose leafhoppers, Scales (Black, Fletcher, Florida red, Juniper, Oyster shell, Purple, Soft brown, Yellow), Scale crawlers, Spittlebugs, Tarnished plant bugs, Tent caterpillars, Thrips, Whiteflies, Woolly aphids.]

OPTION FOR BOOKLET LABEL

PEEL HERE
STOP. READ ALL INSTRUCTIONS
INSIDE BEFORE USING.

See directions inside booklet



STOP. READ ENTIRE LABEL BEFORE USE.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Precautions and Restrictions

- DO NOT APPLY THIS PRODUCT IN A WAY THAT WILL CONTACT ANY PERSON OR PET, EITHER DIRECTLY OR THROUGH DRIFT. KEEP PEOPLE AND PETS OUT OF THE AREA DURING APPLICATION.
- Do not allow people or pets to enter the treated area until sprays have dried.
- For outdoor use around the home only. Do not use on lawns.
- Do not use this product in or on electrical equipment due to the possibility of shock hazard.

Page 1 of 5

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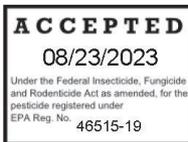
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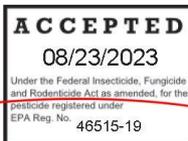
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Super KGRO Malathion 50 Insect Spray EPA Reg. No. 46515-19

2/7/23

This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and re-check in a few hours. Do not use if any staining is observed.

To avoid damage or poor results carefully read and follow all directions and precautionary statements.

Use with adequate ventilation.

Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).

Do not apply directly to sewers or storm drains, or any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.

Do not apply or irrigate to the point of runoff.

Do not apply this product when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 24 hours following application.

Following best practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

HOW TO MIX AND APPLY

In a tank sprayer, mix the specified amounts of this product in water until the spray mixture is uniform. Spray thoroughly covering both upper and lower leaf surfaces or other infested plant parts. Begin treating when insects first appear.

FLOWERS AND BUSHES

For use on Azaleas, Camellias, Chrysanthemums, Evergreens, and Roses.

Spot treatment only.

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

[PESTS:]

To control Aphids, mix 1-1/2 to 2 teaspoons per gallon of water.

To control Bagworms, Box elder bugs, Fourlined leaf bugs, Japanese beetle adults, Mealybugs, Mites (Red spider, Spruce), Rose leafhoppers, Tarnished plant bugs, Thrips, Whiteflies, Woolly aphids; mix 1 tablespoon per gallon of water.

To control Scales (Black, Oyster shell, Soft brown); mix 1-1/2 to 2 tablespoons per gallon of water.

For control of palm weevils and scales (Multiple) mealybugs use 2 teaspoons per gallon of water.

NOTE: Do not use on Boston, Maidenhair, Petris ferns, as well as species of Crassula. Do not apply to Petunias. [NOTE: Do not use on Boston, Maidenhair or Petris Ferns, Crassula or Petunias.]

FRUITS AND VEGETABLES

Application equipment limited to hand-pump sprayers, hose-end sprayers, and sprinkler cans.

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

FRUITS

Observe pre-harvest intervals as noted below:

Apricots: Do not apply within 6 days of harvest.

Cherries: Do not apply within 3 days of harvest.

Grapes: Do not apply within 3 days of harvest.

Peaches: Do not apply within 7 days of harvest.

Strawberries: Do not apply within 3 days of harvest.

[PESTS:]

To control Aphids, mix 1-1/2 to 2 teaspoons per gallon of water.

To control Fourlined leaf bugs, Grape leafhoppers, Japanese beetle adults, Leafrollers (Fruit tree, Red-banded, Strawberry), Mealybugs, Moths (Bud, Codling), Pear psyllids, Plum curculio, Red spider mites, Tarnished plant bugs, Tent caterpillars, Thrips, Whiteflies and Woolly aphids; mix 1 tablespoon per gallon of water.

To control Scale crawlers, mix 1-1/2 – 2 tablespoons per gallon of water.

Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

NOTE: Malathion may cause injury to Ribier grapes.

CITRUS

Observe pre-harvest intervals as noted below:

Grapefruit, Lemons, Limes, Oranges and Tangerines: Do not apply within 7 days of harvest.

[PESTS:]

To control Aphids and Scales (Black, Florida red, Purple, Yellow), Thrips and Whiteflies; mix 2 teaspoons per gallon of water. Thorough coverage of branches

The "do not" list

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Super KGRO Malathion 50 Insect Spray EPA Reg. No. 46515-19

2/7/23

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- To avoid damage or poor results carefully read and follow all directions and precautionary statements
- Use with adequate ventilation.
- Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).
- Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).
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- Do not allow the product to enter any drain during or after application.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.
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- Do not apply this product when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 24 hours following application.

Following best practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-est-management-practices-protect-pollinators>.

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FLOWERS AND BUSHES

For use on Azaleas, Camellias, Chrysanthemums, Evergreens, and Roses.

Spot treatment only

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

[PESTS:]

To control Aphids, mix 1-1/2 to 2 teaspoons per gallon of water.

To control Bagworms, Box elder bugs, Fourlined leaf bugs, Japanese beetle adults, Mealybugs, Mites (Red spider, Spruce), Rose leafhoppers, Tarnished plant bugs, Thrips, Whiteflies, Woolly aphids; mix 1 tablespoon per gallon of water.

To control Scales (Black, Oyster shell, Soft brown); mix 1-1/2 to 2 tablespoons per gallon of water.

For control of Oak kermes and Scales (Juniper, Fletcher); use 2 teaspoons per gallon of water.

NOTE: Do not use on Boston, Maidenhair, Petris ferns, as well as species of Crassula. Do not apply to Petunias. [NOTE: Do not use on Boston, Maidenhair or Petris Ferns, Crassula or Petunias.]

FRUITS AND VEGETABLES

Application equipment limited to hand-pump sprayers, hose-end sprayers, and sprinkler cans

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

FRUITS

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Strawberries: Do not apply within 3 days of harvest.

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To control Fourlined leaf bugs, Grape leafhoppers, Japanese beetle adults, Leafrollers (Fruit tree, Red-banded, Strawberry), Mealybugs, Moths (Bud, Codling), Pear psyllids, Plum curculio, Red spider mites, Tarnished plant bugs, Tent caterpillars, Thrips, Whiteflies and Woolly aphids; mix 1 tablespoon per gallon of water.

To control Scale crawlers, mix 1-1/2 – 2 tablespoons per gallon of water.

Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

NOTE: Malathion may cause injury to Ribier grapes.

CITRUS

Observe pre-harvest intervals as noted below.

Grapefruit, Lemons, Limes, Oranges and Tangerines: Do not apply within 7 days of harvest.

[PESTS:]

To control Aphids and Scales (Black, Florida red, Purple, Yellow), Thrips and Whiteflies; mix 2 teaspoons per gallon of water. Thorough coverage of branches

[Bracketed Text] = Optional language

Page 2 of 5

The Label is the Law

Super KGRO Malathion 50 Insect Spray EPA Reg. No. 46515-19

2/7/23

- This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and re-check in a few hours. Do not use if any staining is observed.
- To avoid damage or poor results carefully read and follow all directions and precautionary statements
- Use with adequate ventilation.
- Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).
- Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).
- Do not apply directly to sewers or storm drains, or any area like a drain or gutter where drainage to sewers, storm drains, water bodies or aquatic habitat can occur.
- Do not apply to roads, or residential driveways, parking areas or patios.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.
- Do not apply or irrigate to the point of runoff.
- Do not apply this product when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 24 hours following application.

Following best practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

HOW TO MIX AND APPLY

In a tank sprayer, mix the specified amounts of this product in water until the spray mixture is uniform. Spray thoroughly covering both upper and lower leaf surfaces or other infested plant parts. Begin treating when insects first appear.

FLOWERS AND BUSHES

For use on Azaleas, Camellias, Chrysanthemums, Evergreens, and Roses.

Spot treatment only

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

[PESTS:]

To control Aphids, mix 1-1/2 to 2 teaspoons per gallon of water.

To control Bagworms, Box elder bugs, Fourlined leaf bugs, Japanese beetle adults, Mealybugs, Mites (Red spider, Spruce), Rose leafhoppers, Tarnished plant bugs, Thrips, Whiteflies, Woolly aphids; mix 1 tablespoon per gallon of water.

To control Scales (Black, Oyster shell, Soft brown); mix 1-1/2 to 2 tablespoons per gallon of water.

For control of Oak kermes and Scales (Juniper, Fletcher); use 2 teaspoons per gallon of water.

NOTE: Do not use on Boston, Maidenhair, Petris ferns, as well as species of Crassula. Do not apply to Petunias. [NOTE: Do not use on Boston, Maidenhair or Petris Ferns, Crassula or Petunias.]

FRUITS AND VEGETABLES

Application equipment limited to hand-pump sprayers, hose-end sprayers, and sprinkler cans

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

FRUITS

Observe pre-harvest intervals as noted below:

Apricots: Do not apply within 6 days of harvest.

Cherries: Do not apply within 3 days of harvest.

Grapes: Do not apply within 3 days of harvest.

Peaches: Do not apply within 7 days of harvest.

Strawberries: Do not apply within 3 days of harvest.

[PESTS:]

To control Aphids, mix 1-1/2 to 2 teaspoons per gallon of water.

To control Fourlined leaf bugs, Grape leafhoppers, Japanese beetle adults, Leafrollers (Fruit tree, Red-banded, Strawberry), Mealybugs, Moths (Bud, Codling), Pear psyllids, Plum curculio, Red spider mites, Tarnished plant bugs, Tent caterpillars, Thrips, Whiteflies and Woolly aphids; mix 1 tablespoon per gallon of water.

To control Scale crawlers, mix 1-1/2 – 2 tablespoons per gallon of water.

Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

NOTE: Malathion may cause injury to Ribier grapes.

CITRUS

Observe pre-harvest intervals as noted below:

Grapefruit, Lemons, Limes, Oranges and Tangerines: Do not apply within 7 days of harvest.

[PESTS:]

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- To avoid damage or poor results carefully read and follow all directions and precautionary statements
- Use with adequate ventilation.
- Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).
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- Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.
- Do not apply or irrigate to the point of runoff.
- Do not apply this product when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 24 hours following application.

For more information on bee and bumblebee conservation practices, visit <https://www.epa.gov/pollinator-protection/insect-management-practices-protect-pollinators>

HOW TO MIX AND APPLY

In a tank sprayer, mix the specified amounts of this product in water until the spray mixture is uniform. Spray thoroughly covering both upper and lower leaf surfaces or other infested plant parts. Begin treating when insects first appear.

FLOWERS AND BUSHES

For use on Azaleas, Camellias, Chrysanthemums, Evergreens, and Roses.

Spot treatment only

Do not apply more than two applications per year. Minimum retreatment interval is 10 days.

[PESTS:]

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Super KGRO Malathion 50 Insect Spray EPA Reg. No. 46515-19

2/7/23

and upper and lower leaf surfaces is necessary to control insects. Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

VEGETABLES

Observe pre-harvest intervals as noted below.

- Beans: Do not apply within 1 days of harvest.
- Broccoli, Brussels Sprouts, Cauliflower: Do not apply within 2 days of harvest.
- Cabbage: Do not apply within 7 days of harvest.
- Kale: Do not apply within 7 days of harvest.
- Lettuce (Head): Do not apply within 14 days of harvest.
- Lettuce (Leaf): Do not apply within 14 days of harvest.
- Peas: Do not apply within 3 days of harvest.
- Potatoes: Do not apply within 0 days of harvest.
- Radishes: Do not apply within 7 days of harvest.
- Squash (summer and winter): Do not apply within 1 days of harvest.
- Tomatoes: Do not apply within 1 days of harvest.

[PESTS]

To control Aphids, mix 1-1/2 to 2 teaspoons per gallon of water.
To control Fourlined leaf bugs, Japanese beetle adults, Leafhoppers (Bean, Potato), Mealybugs, Red spider mites, Tarnished plant bugs, Thrips and Whiteflies, mix 1 tablespoon per gallon of water.

OPTIONAL READY SPRAY NOZZLE DIRECTIONS



STOP. READ ENTIRE LABEL BEFORE USE.

DIRECTIONS FOR USE

This is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Precautions and Restrictions

- DO NOT APPLY THIS PRODUCT IN A WAY THAT WILL CONTACT ANY PERSON OR PET, EITHER DIRECTLY OR THROUGH DRIFT, KEEP PEOPLE AND PETS OUT OF THE AREA DURING APPLICATION.
- Do not allow people or pets to enter the treated area until sprays have dried.
- For outdoor use around the home only. Do not use on lawns.
- Do not use this product in or on electrical equipment due to the possibility of shock hazard.
- This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and re-check in a few hours. Do not use if any staining is observed.

- To avoid damage or poor results carefully read and follow all directions and precautionary statements
- Spray thoroughly covering both upper and lower leaf surfaces or other infested plant parts. Begin treating when insects first appear. Thorough coverage is important.
- Use with adequate ventilation.
- Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds).
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Following best practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

HOW TO USE

USING THE READY SPRAY NOZZLE

1. **Shake the container well before using.**
2. Connect a garden hose to the Ready Spray nozzle. Make sure the dial on the nozzle is in the "OFF" POSITION with the safety tab in the valve notch.
3. Turn on water at faucet. Extend hose to the farthest area to be treated and work back toward the faucet so you don't come in contact with the treated area.
4. To BEGIN spraying, point nozzle toward plants to be treated and 1.) bend the safety tab back with your thumb, 2.) using your other hand QUICKLY turn the dial clockwise until it stops. Water will automatically mix with the product.
5. Spray until wet to control insects listed. Walk at a steady pace while spraying using even sweeping motion, slightly overlapping treated areas. One quart will treat 6,400 sq. ft. Calculate square feet by multiplying length by width. Refer to sight gauge to guide coverage (example: when bottle is half empty, you should have covered half the area.)
6. To STOP spraying, QUICKLY turn the dial in the opposite direction of "ON" until it stops and the safety tab engages the notch on the valve. Turn water off at faucet. To relieve pressure before removing nozzle from hose, bend the safety tab back and turn dial "ON" until water stops spraying.

[Bracketed Text] = Optional language

Page 3 of 5

Reading Labels Training ~Best Practices

Discussion



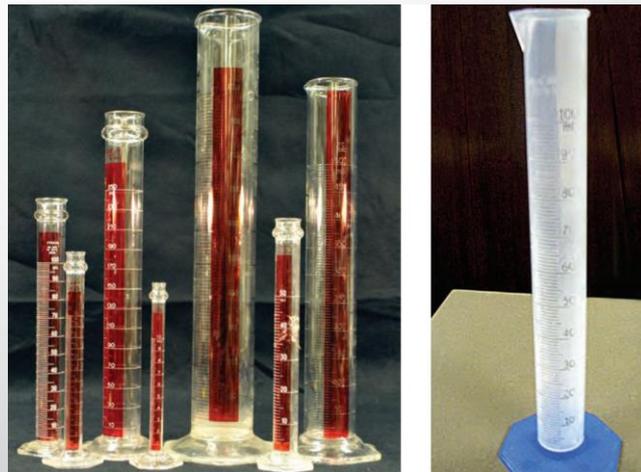
Measuring Liquid Pesticides

Keys to
Improving Results
with
Plant Protection
Products



Measuring Liquid Pesticides

- Liquids are always measured by volume
- Calibrate your oz device with separate milliliter device for accuracy
- Measure 237 mL



Measuring Liquid Pesticides

- Pour the 237 mL liquid into the 8 oz device to check for accuracy



Measuring Liquid Pesticides



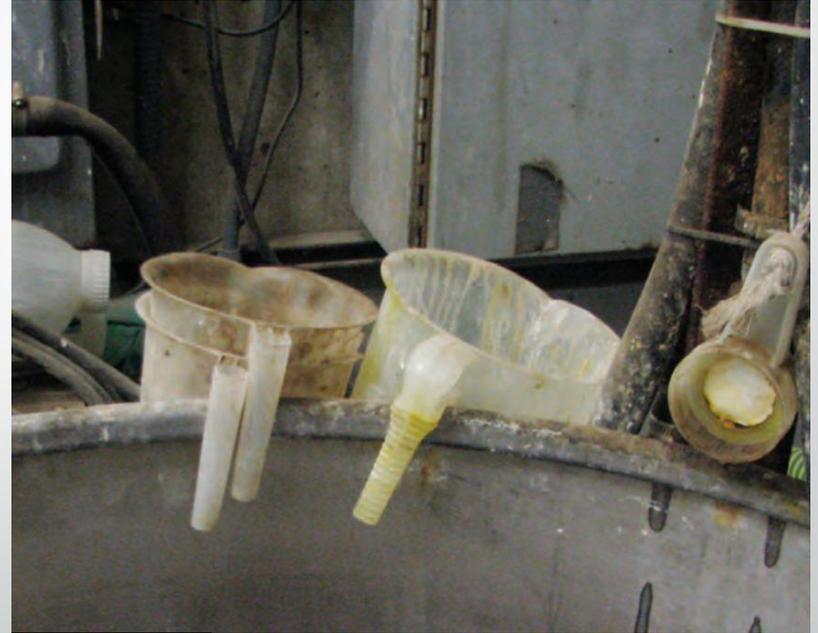
Measuring Liquid Pesticides

- Measuring device should have handles and pour spouts
- Read the level in a well lighted place and with your eye level with the line.



Measuring Liquid Pesticides

- Rinse thoroughly



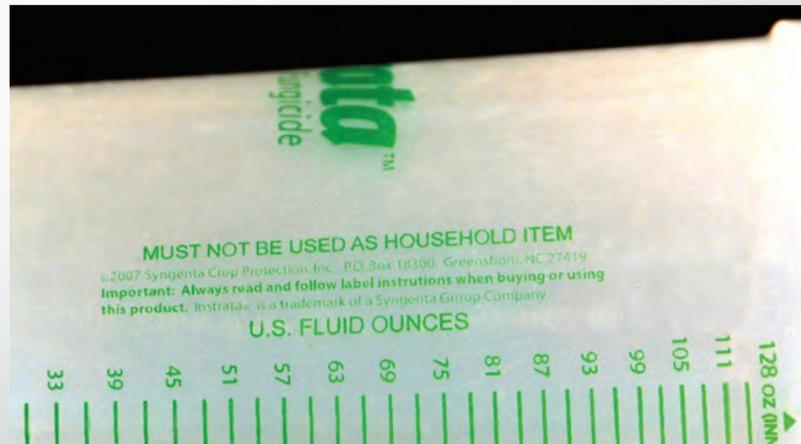
Measuring Liquid Pesticides

- Rinse thoroughly
- Dedicate one device each for
 - Herbicides
 - Fungicides
 - Insecticides



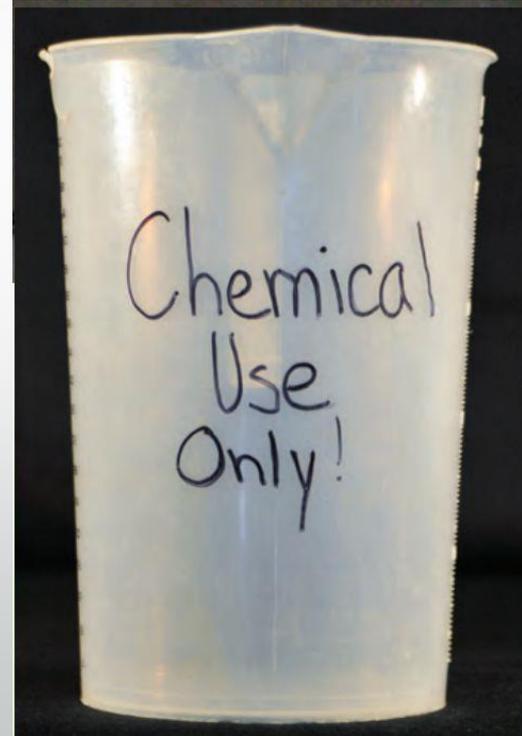
Measuring Liquid Pesticides

- Never use for household products

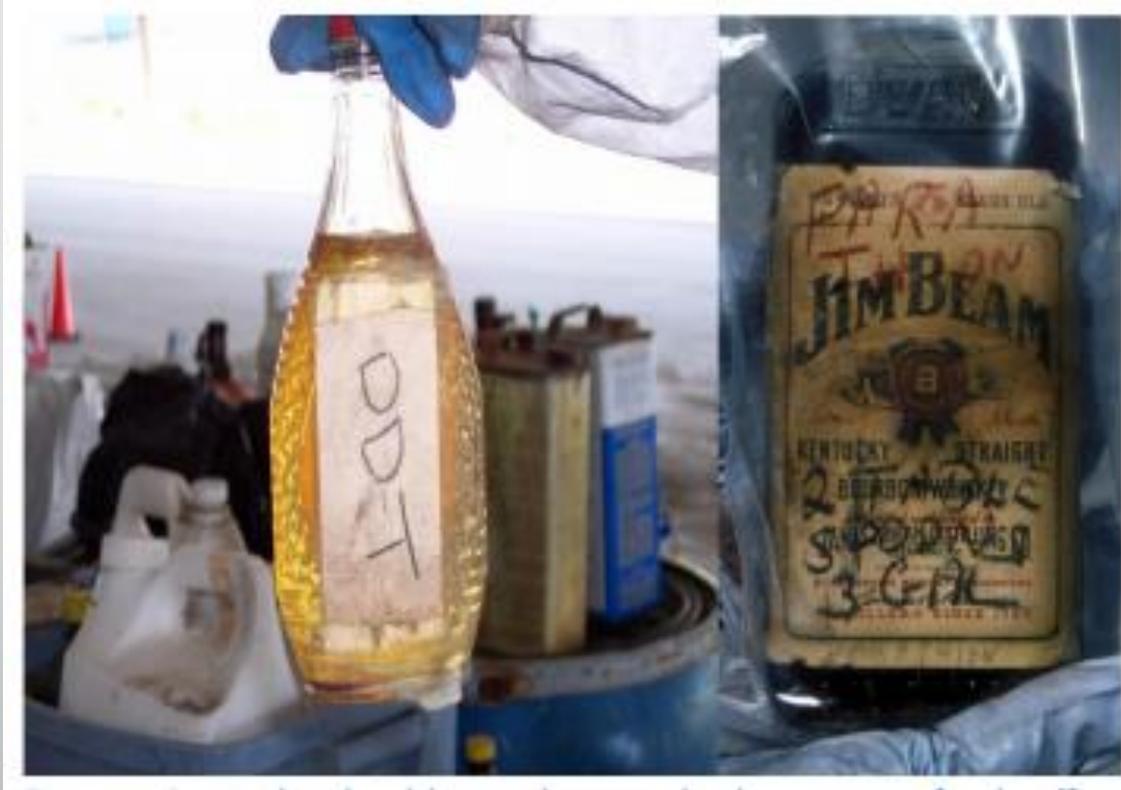


Measuring Liquid Pesticides

- Never use for household products



Do Not Decant into Unapproved Containers



Small ... But Mighty



Liquid and Dry Measures are Different



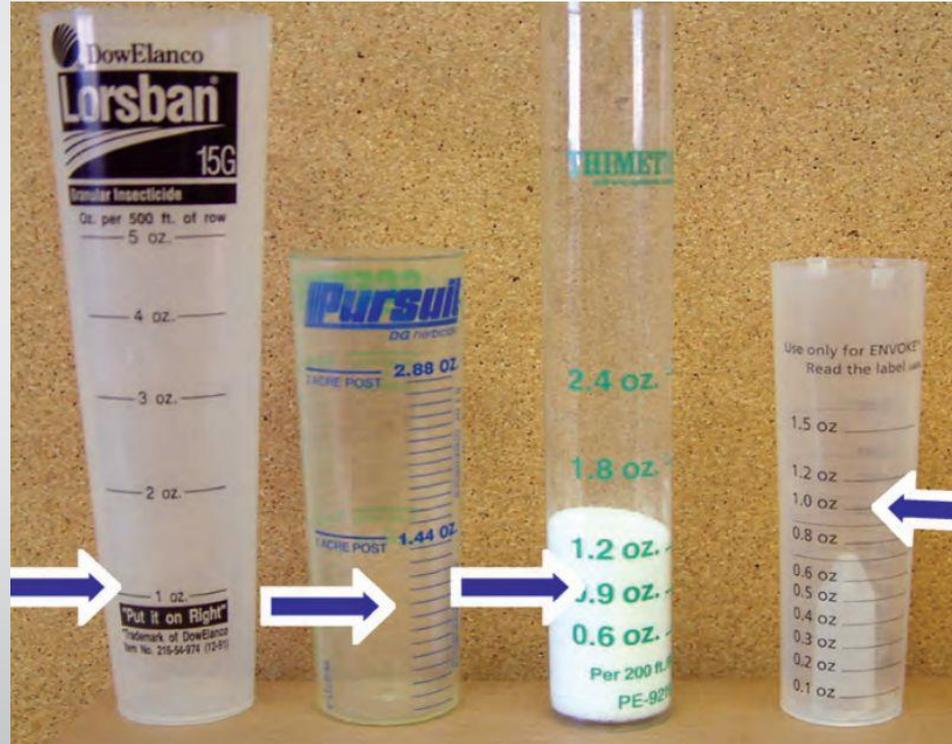
Even Dry Measures Are Different



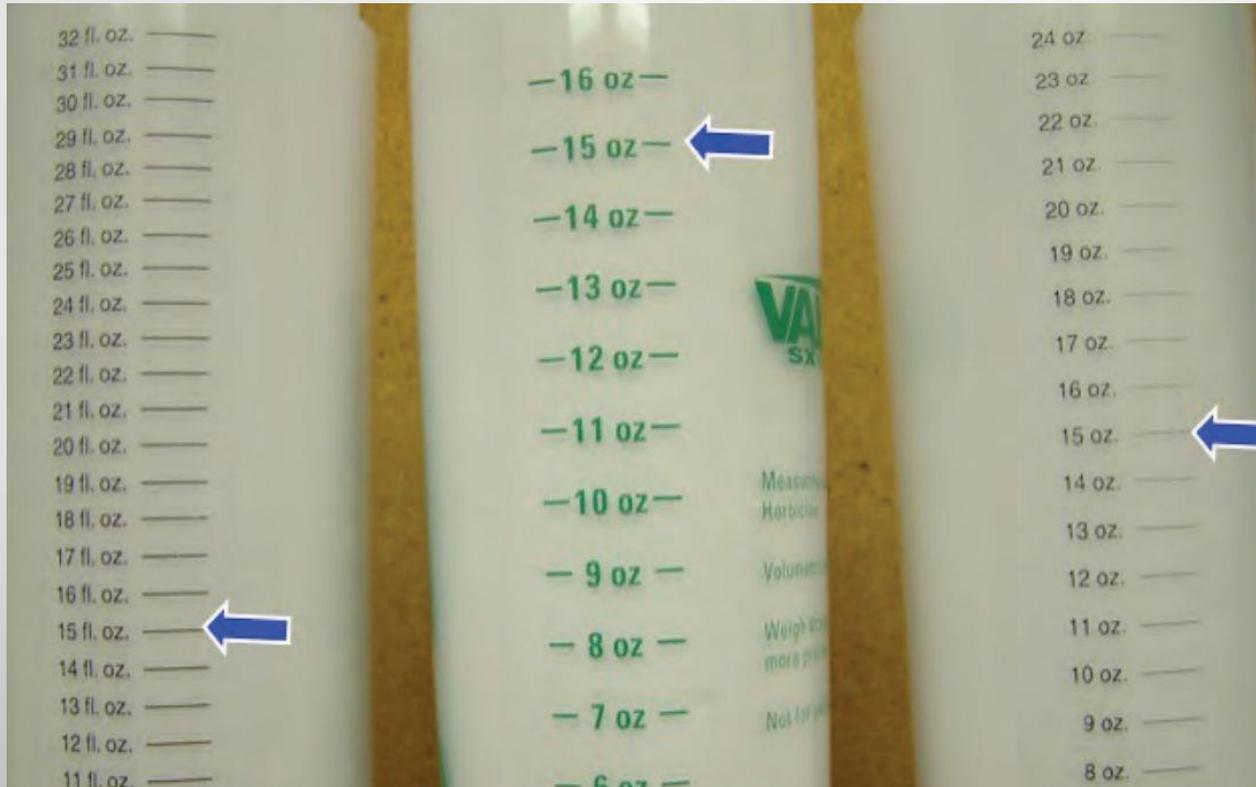
Even Dry Measures Are Different



Even Dry Measures Are Different



Devices Measure Different Formulations



Pesticide Formulation Types

- **DRY PESTICIDES**
- Dusts, dry application
- **GR, G:** Granules, dry application
- **WG:** mix with water for spray application
 - **DF** - Dry Flowable
 - **WDG** - Water Dispersible Granule
 - **WP:** Wettable Powders
- **LIQUID PESTICIDES**
- **LIQUID FLOWABLES**
 - **SC:** Suspension Concentrates
 - **SE:** Suspo-emulsions
- **EC:** Emulsifiable Concentrates.
- **SN:** Solutions
- **SL:** Soluable Liquids

Dry Formulations are Product Specific



Dry Formulations are BATCH Specific



Dry Formulations Devices are Different

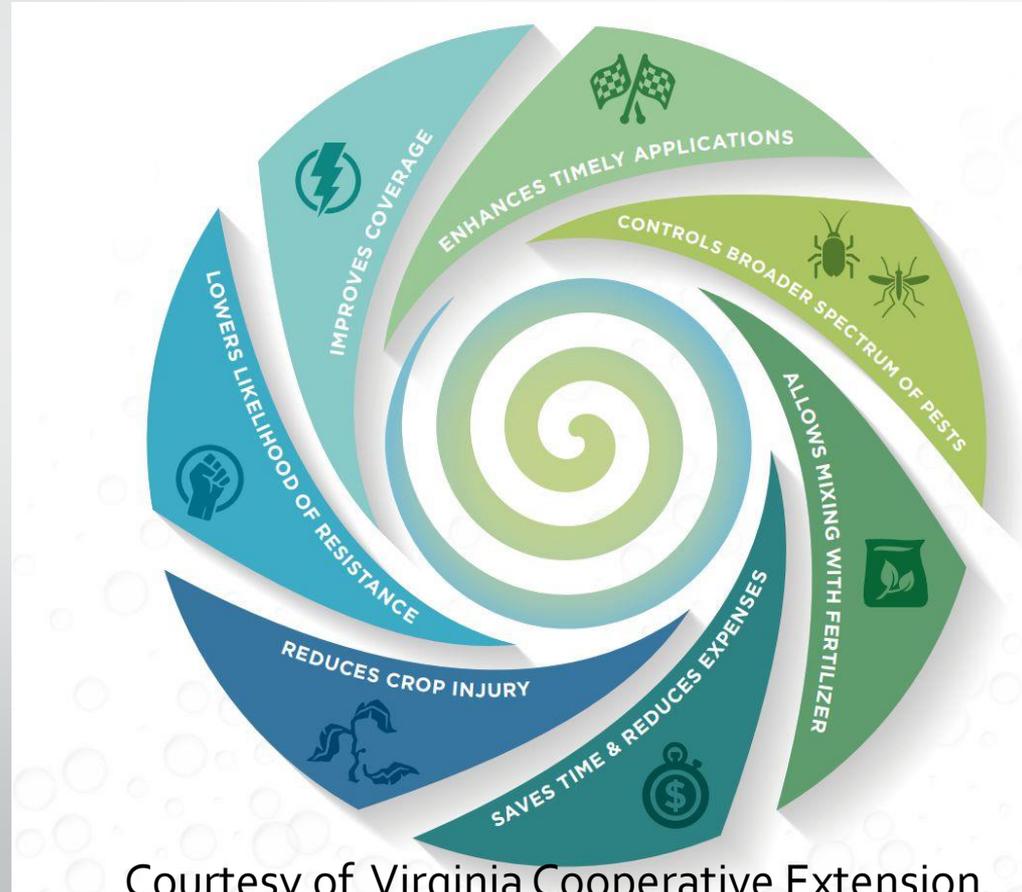


Measuring Equipment

Discussion



Tank Mixing



Courtesy of Virginia Cooperative Extension

Tank Mixing – WALES Method

- W Water
 - Water soluble bags
 - Wettable powders
 - Water dispersible granules
- A Agitation
- L Liquid flowables
- E Emulsifiable concentrates
- S Solutions or soluble liquids



W or D

Dry formulations (DF) should be added to the tank first. This includes wettable powders (WP/W), water-dispersible granules (WDG), and water soluble packets (WSP). Make sure these products have fully dissolved before moving to the next step.



A

Agitation should be continuous throughout the mixing process, starting when the tank is half full and continuing after adding each product until the end.



E

Emulsifiable Concentrates (EC) should be added next, and Microencapsulated (ME) formulations should follow after that.



L

Add liquid (L), flowable (F), and soluble concentrate (SC) formulations next.



S

Surfactants and other adjuvants can be added last. This includes drift control agents, crop oils, etc. The final step is to fill the tank with the remainder of the needed water and continue agitation.

re 4. WALES/DALES method for mixing pesticides. (Adapted from Whitford et. al 2018)

Courtesy of Virginia Cooperative Extension

Mix Order or Incompatibility Issues



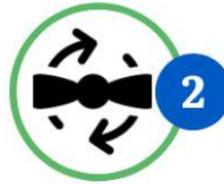
Tank Mixing – WALES Method

- W Water
 - Water soluble bags
 - Wettable powders
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- A Agitation
- L Liquid flowables
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Courtesy of Virginia Cooperative Extension

**D
A
N
G
E
R**

*Severe
Eye or
Skin
Irritant*

DANGER 
POISON

Highly Toxic

WARNING

Moderately Toxic

CAUTION

Slightly Toxic

NEW TECHNOLOGY ~ Water Soluable Packaging



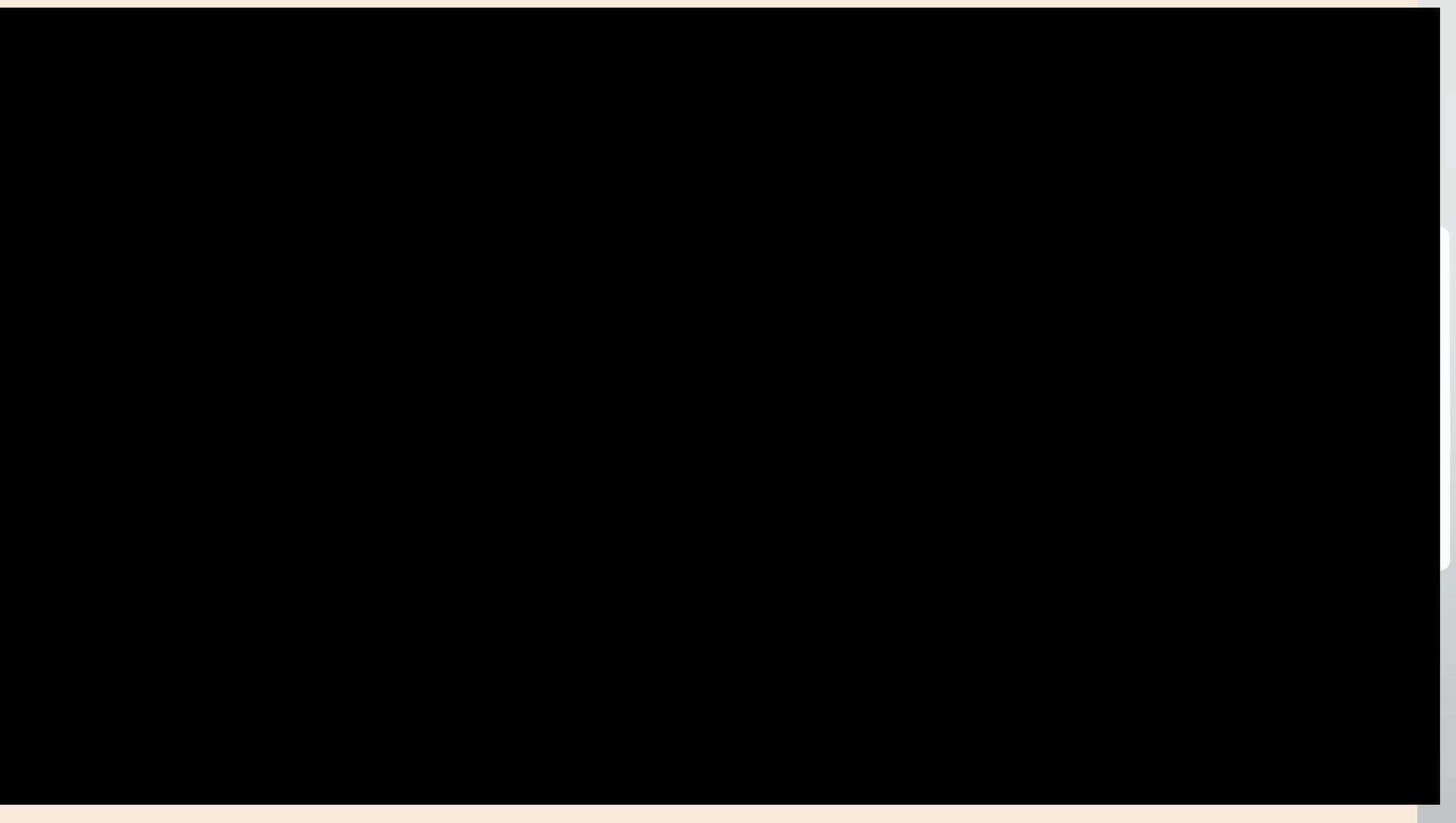
PPE Requirements

- You must wear eye protection at all times
- Read the label for other PPE requirements.
- You must have full PPE on hand and easily available if you do not have to use it.





Pour sideways to prevent glugging or splashing



(Closed Transfer System, CTS)

Pump



Measure



Load



Imagine if dispensing chemicals was as easy as using a beer tap.



A perfect pour every time!



- No wasted liquids
- No more spills to clean up.

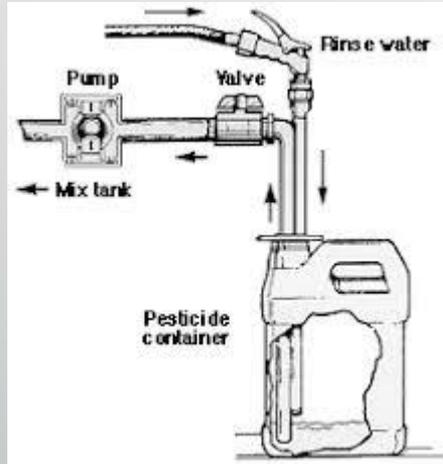


If you **minimize exposure**,
people will WANT to use it



Secret
3

Cost Reduction



Cost of Chemicals

Herbicide:

AgSaver: \$96.25 (2.5 gallon) Generic for glyphosate (aka Roundup) **\$0.30 / oz.**

Insecticide

Imidacloprid 4F \$142 - \$180 (2.5 gal) Trade Name: Admire \$0.56 / oz.

Carbaryl \$215 (2.5 gal) Trade Name: Sevin \$0.67 per oz

Fungicide:

Incognito \$105 (2.5 gal) Generic for Topsin \$0.32/oz

Fungi-phile \$209 (2.5 gal) \$0.65 per oz

Cueva: \$166 (2.5 gal) Copper Octanoate (Copper Soap) \$0.33 per oz.

Both Fungicide and Insecticide

Neem Oil \$115 (2.5 gal) One trade name would be Trilogy) \$0.32/oz

TIP and POUR METHOD

Pest Control Products, Wetting Agents, Fertilizers @ \$1.00 per ounce



Cost of "Loss" per pour:

Using too much chemical (2 oz)
\$ 2.00 per pour

OR Spills from over filling (2 oz)
\$2.00 per pour

PLUS

Materials for clean up and disposal
from spills
\$3.00 per pour

Cost for "Loss"
\$5.00 per pour

TIP and POUR METHOD

Control Products, Wetting Agents, Fertilizers @ \$1.00 per ounce

Cost of "Loss" per pour:

\$5.00 per pour

Potential Annual "Loss"

- 50 pours per year

\$250.00 per year

- 3 year "Loss" costs \$750.00

- 6 year "Loss" costs

\$1,500.00





Sealed System Cost Savings

Control Products, Wetting Agents, Fertilizers @ \$1.00 per ounce

Cost of "Loss" per pour:

Using just the right amount

\$ 0.00 per pour

No spill or over filling

\$0.00 per pour

PLUS

Materials for clean up and disposal
from spills

\$0.00 per pour

Cost for "Loss"

\$0.00 per pour



Sealed System Cost Savings

Control Products, Wetting Agents, Fertilizers @ \$1.00 per ounce

Cost of "Savings" per pour:

\$5.00 per pour

Potential Annual "Savings"

- 50 pours per year
\$250.00 per year
- 3 year "Savings"
\$750.00
- 6 year "Savings"
\$1,500.00

•Today We Covered

- What is on the the PPP Label
- Differences between Dry vs Liquid PPP
- WALES Method for Mixing
- Technologies to Improve Safety

Thank you !



nwestcott@goatthroat.com

Call +1.212.255.6964



Nancy Westcott

Equipment
Designer