

# TOP COP with Sulfur Flowable Fungicide/Bactericide



## ACTIVE INGREDIENTS:

Sulfur, as elemental.....50.0%  
Basic copper sulfate\*.....8.4%

**OTHER INGREDIENTS:**.....41.6%  
Total .....100.000%

(\*Metallic copper equivalent 4.7%. Contains 0.142 lbs. of copper as metallic per quart of product and 0.57 lbs. of copper as metallic per gallon of product).  
(2.84 kgs. Sulfur and 0.45 kgs basic copper sulfate per gallon).

## GUARANTEED ANALYSIS

Sulfur (S) .....50.0%  
Copper (Cu) .....4.7%

Derived from elemental sulfur and copper sulfate.

**Density: 11.9 lbs/gallon or 1.43 kg/L**

## NET CONTENTS

2.5 Gallons (29.8 lbs)  
5 Gallons (59.5 lbs)  
30 Gallons (357 lbs)  
55 Gallons (654.5 lbs)  
275 Gallons (3272.5 lbs)  
4 Liters (5.72 kg)  
10 Liters (14.3 kg)  
20 Liters (28.6 kg)  
208 Liters (297.44 kg)

**Manufactured and Guaranteed by  
Stoller Enterprises, Inc.**

9090 Katy Freeway, Suite 400  
Houston, Texas 77024  
Phone: 1-800-539-5283 or 713-461-1493

## KEEP OUT OF REACH OF CHILDREN CAUTION

### EPA Reg. No.: 57538-6

EPA Est. No. 57538-FL-1, 57538-IA-1, 57538-TX-2

**STORAGE AND DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Do not store in direct sunlight. Avoid freezing temperatures. Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container Handling: **Nonrefillable containers:** Do not reuse or refill this container. Clean container promptly after emptying. **Nonrefillable container equal to or less than 5 gallons:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 120 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Nonrefillable container greater than 5 gallons:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### PRECAUTIONARY STATEMENTS. HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

## CAUTION

Harmful if inhaled. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

**PERSONAL PROTECTIVE EQUIPMENT:** Waterproof gloves are sufficiently chemical-resistant for this product. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart. **Applicators and other handlers must wear:** Long-sleeved shirt and long pants · chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride · shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>· Call a poison control center or doctor immediately for treatment.</li> <li>· Have a person sip a glass of water if able to swallow.</li> <li>· Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>· Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>· Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>· Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>· Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>· Take off contaminated clothing.</li> <li>· Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>· Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

# TOP COP™

With Sulfur  
Flowable Fungicide/Bactericide



## ACTIVE INGREDIENTS:

Sulfur, as elemental	50.0%
Basic copper sulfate*	8.4%

**OTHER INGREDIENTS:** 41.6%

Total 100.00%

(\*Metallic copper equivalent 4.7%. Contains 0.142 lbs. of copper as metallic per quart of product and 0.57 lbs. of copper as metallic per gallon of product), (2.84 kgs. Sulfur and 0.45 kgs basic copper sulfate per gallon).

## GUARANTEED ANALYSIS

Sulfur (S)	50.0%
Copper (Cu)	4.7%

Derived from elemental sulfur and copper sulfate.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA Reg. No. 57538-6 EPA Est. No. 57538-FL-1, 57538-IA-1, 57538-TX-2

### FIRST AID

If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment. Have a person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If in eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <b>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300</b>	

### PRECAUTIONARY STATEMENTS

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, gloves made of any waterproof material including polyethylene or polyvinyl chloride, shoes plus socks and protective eyewear. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wear PPE separately from other laundry. Discard clothing and other absorbent materials that have been washed or heavily contaminated with this product's concentrate. Do not reuse them.

**STORAGE AND DISPOSAL:** DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. **PESTICIDE STORAGE:** Store in a dry location away from children, animals, foods, feeds, seeds or other agricultural chemicals. Store above 30°F. Stack pallets or cases three high on the pallet. Do not stack pallets. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel usable product in a sound container. Avoid prolonged storage or exposure to mild steel. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Use label language appropriate for container size and type. **Nonrefillable containers.** Do not reuse or refill this container. Clean container promptly after emptying. **Nonrefillable containers equal to or less than 5 gallons:** Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning, if burning, stay out of smoke. **Nonrefillable container greater than 5 gallons:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinse into application equipment or a mix tank or store rinse for later use of disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning, if burned, stay out of smoke.

### NET CONTENTS: Density: 11.9 lbs/gallon or 1.43 kg/L

- |   |   |
|---|---|
| <input type="checkbox"/> 2.5 Gallons (29.8 lbs)   | <input type="checkbox"/> 4 Liters (5.72 kg)     |
| <input type="checkbox"/> 5 Gallons (59.5 lbs)     | <input type="checkbox"/> 10 Liters (14.3 kg)    |
| <input type="checkbox"/> 30 Gallons (357 lbs)     | <input type="checkbox"/> 20 Liters (28.6 kg)    |
| <input type="checkbox"/> 55 Gallons (654.5 lbs)   | <input type="checkbox"/> 208 Liters (297.44 kg) |
| <input type="checkbox"/> 275 Gallons (3272.5 lbs) |   |

Manufactured and Guaranteed By **STOLLER ENTERPRISES, INC.**  
9090 Katy Freeway, Suite 400 Phone (713) 461-1493  
Houston, Texas 77024 U.S.A. Fax (713) 465-1533

## PRECAUTIONARY STATEMENTS

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, gloves made of any waterproof material including polyethylene or polyvinyl chloride, shoes plus socks and protective eyewear. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### ENGINEERING CONTROLS STATEMENT:

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4.6)], the handler PPE requirements may be reduced or modified as a specified in the WPS.

### USER SAFETY RECOMMENDATIONS:

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in waters adjacent to treated areas. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Certain water conditions including low pH (< 6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increase the potential acute toxicity to non-target aquatic organisms.

### DIRECTIONS FOR USE:

It is a violation of the Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **AGRICULTURAL USE REQUIREMENTS:**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water is: coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, chemical-resistant headgear if overhead exposure, protective eyewear, and chemical-resistant apron when mixing, loading, cleaning equipment or spills, or otherwise exposed to the concentrate. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

#### **USE RESTRICTIONS:**

Some fruits and other plants are susceptible to injury from sulfur under certain climactic conditions. The user is advised not to use sulfur on any crop unless local use has proved that sulfur is safe in that locality. When crops are intended for processing, consult with processor before applying sulfur. During periods of high temperature sulfur may burn foliage and fruit. Do not make sulfur applications at excessively high temperatures. Do not use sulfur with oil or within 4 weeks of an oil application unless in a dormant, delayed dormant or post-harvest application. When sulfur is used with arsenicals, lime need to be added to prevent plant injury.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that TOP COP™ with SULFUR contains both a Group M02/Sulfur and Group M01/Copper fungicide/bactericide. Any fungal/bacterial population may contain individuals naturally resistant to TOP COP™ with SULFUR and other Group M02 or Group M02 fungicides/bactericides. A gradual or total loss of pest control may occur over time if these fungicides/bactericides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay fungicide/bactericide resistance, take one or more of the following steps:

- Rotate the use of TOP COP™ with SULFUR or other Group M02 and Group M01 fungicides/bactericides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicide/bactericides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide/bactericide use that includes scouting, uses

historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.

- Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal/bacterial populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or 1PM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact STOLLER ENTERPRISES, INC. at (713) 461-1493. You can also contact your pesticide distributor or university extension specialist to report resistance.

#### **MIXING AND SPRAYING INSTRUCTIONS**

Pour specified amount in partially filled spray tank. Keep agitator running during filling and spraying operation. DO NOT ALLOW MIXTURE TO STAND. Failure to maintain agitation will cause TOP COP™ with SULFUR to settle and may necessitate manual stirring to re-disperse. The strong adhesive properties of TOP COP™ with SULFUR act as a sticker on the plant, and the sticking characteristic necessitates the flushing of equipment with water after each day's use. Sulfur in any form is corrosive material. TO REDUCE THE EFFECT, EQUIPMENT NEEDS TO BE FLUSHED DAILY. DO NOT USE IN ALUMINUM TANKS. Unless otherwise specified for specific crops, dosage rates are given as quarts of TOP COP™ with SULFUR per acre on field

and vegetable crops and in quarts per 100 gallons for fruit and nut crops. Spray applications can be made by ground or aerial spray equipment. Aerial sprays need to be applied with a minimum spray volume of 5 gallons per acre (2.85 lbs Cu;31.25 lbs S). Unless stated otherwise, use the high dosage rate if conditions for disease pressure are great; use the low rate if disease is light or moderate. Applications on sulfur-sensitive crops need to be made when lower temperatures are expected.

#### **APPLICATION AND CALIBRATION TECHNIQUES FOR SPRINKLER IRRIGATION**

Apply this product through the following types of irrigation systems. DO NOT APPLY THROUGH ANY OTHER TYPES OF IRRIGATION SYSTEMS. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you must contact State Experiment Stations specialists, equipment manufacturers or other experts. DO NOT CONNECT AN IRRIGATION SYSTEM (INCLUDING GREENHOUSE SYSTEMS) USED FOR PESTICIDE APPLICATION TO A PUBLIC WATER SYSTEM UNLESS THE PESTICIDE LABEL-PRESCRIBED SAFETY DEVICES FOR PUBLIC WATER SYSTEMS ARE IN PLACE. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person shall shut the system down and make necessary adjustments if the need arise.

- A. Center Pivot, Traveler, Big Gun Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment:**  
Operate system and injection equipment at normal pressures directed but the manufacturer of the injection equipment used. Fill tank of injection equipment with water. Operate system for

one complete circle for center pivot or one complete run for the other specified equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix specified amount of TOP COP™ with SULFUR for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until TOP COP™ with SULFUR has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

**B. Solid Set and Hand Move Irrigation Equipment:** Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over thirty to forty-five minute period. Mix desired amount of TOP COP™ with SULFUR for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures directed by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that TOP COP™ with SULFUR will remain in suspension during the injection cycle. TOP COP™ with SULFUR can be injected at the beginning or end of the irrigation cycle or as separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until TOP COP™ with SULFUR is cleared from last sprinkler head.

#### **SAFETY DEVICES**

(1) The systems designated above must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection

pump. (3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located in the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. (5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. (6) Systems must use a metering pump, including a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. (7) **DO NOT APPLY WHEN WIND SPEED FAVORS DRIFT BEYOND THE AREA INTENDED FOR TREATMENT.**

#### **SYSTEMS CONNECTED TO PUBLIC WATER SOURCES**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system need to be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The system must contain functional interlocking controls to automatically shut off the pesticide injection

pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. For additional instructions on safety precautions, refer to statements (2), (3), (4) (6) and (7) in the section SAFETY DEVICES.

#### **MANDATORY SPRAY DRIFT**

##### Aerial Applications

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

##### Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

##### Boom-less Ground Applications

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **SPRAY DRIFT ADVISORIES**

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

##### Controlling Droplet Size - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### Controlling Droplet Size - Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.
- BOOM HEIGHT - Ground Boom  
Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.
- RELEASE HEIGHT - Aircraft  
Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.
- SHIELDED SPRAYERS  
Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.
- TEMPERATURE AND HUMIDITY  
When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.
- TEMPERATURE INVERSIONS  
Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally

in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

#### • WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

##### • Boom-less Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

##### • Handheld Technology Applications:

Take precautions to minimize spray drift.

## DIRECTIONS FOR USE

Unless otherwise specified, use the high dosage rate if conditions for disease pressure are great; use the low rate if disease is light or moderate. Applications on sulfur-sensitive crops need to be made when lower temperatures are expected.

CROP -DISEASE CONTROLLED	APPLICATION AMOUNT				APPLICATION GUIDE
	Quarts / Acre	Liters / Hectare	Equal lbs. Cu/Acre (Cu/Hectare)	Equal lbs.S/Acre (S/Hectare)	
Alfalfa -Common Leaf Spot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply as foliar spray 10 to 14 days before each harvest or earlier if disease threatens.
Asparagus -Rust	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Start foliar application when rust first appears and repeat at 10 day intervals. Four applications are usually sufficient.
Barley - <i>Helminthosporium</i> Spot Blotch - <i>Septoria</i> Leaf Blotch	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply in foliar spray at early heading and again 10 days later.
Beans (dry, green) -Downy and Powdery Mildew -Rust -Halo Blight	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Begin during early bloom or when disease first threatens.
Beets -Downy and Powdery Mildew	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Begin applications when disease first appears and then every 10 to 14 days.

1e.

RESTRICTIONS					
Max Single Use Rate Quarts/Acre (Liters / Hectare)	Equal Lbs a.i./Acre	Max Annual Use Rate Quarts/Acre (Liters / Hectare)	Equal Lbs a.i./Acre	Min. Retreatment Interval (days)	Max # apps Per Year (when applied at lowest rate)
2 (4.6)	.284 Cu; 3.12 S	7.88 (18.4)	1.12 Cu; 12.29 S	30	7
2 (4.6)	.284 Cu; 3.12 S	35.2 (82.2)	5 Cu; 54.91 S	10	35
2 (4.6)	.284 Cu; 3.12 S	7.46 (17.4)	1.06 Cu; 11.64 S	10	7
2 (4.6)	.284 Cu; 3.12 S	33.3(78)	4.74 Cu; 51.95 S	7	33
2 (4.6)	.284 Cu; 3.12 S	55.3 (129)	7.86 Cu; 86.27 S	10	36

CROP -DISEASE CONTROLLED	APPLICATION AMOUNT				APPLICATION GUIDE
	Quarts / Acre	Liters / Hectare	Equal lbs. Cu/Acre (Cu/Hectare)	Equal lbs./Acre (S/Hectare)	
Carrots -Downy Mildew - <i>Alternaria</i> leaf Blight - <i>Cercospora</i> Blight	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Begin applications when disease is reported and continue at 7 to 10 day intervals.
Celery -Bacterial Blight -Early Blight -Late Blight-Leaf Spots *Not for use in California	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply as a foliar spray at weekly intervals beginning in plant bed and at 7 to 10 day intervals in the field beginning when plants are established.
Corn (Field, Pop, Sweet) - <i>Helminthosporium</i> Leaf Blight	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Start foliar spray when disease first appears and repeat at 7 day intervals.
Eggplant - <i>Alternaria</i> Blight - <i>Anthraco</i> se - <i>Phomopsis</i>	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Begin application with appearance of the disease. Maintain 7 to 10 day schedule until harvest begins.
Lettuce (Head & Leaf) - <i>Anthraco</i> se -Leaf Spot -Downy and Powdery Mildew	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply in foliar spray when disease is expected and repeat at 7 to 10 day intervals.

**RESTRICTIONS**

<b>Max Single Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Max Annual Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Min. Retreatment Interval (days)</b>	<b>Max # apps Per Year (when applied at lowest rate)</b>
2 (4.6)	.284 Cu; 3.12 S	35.2 (82.2)	5 Cu; 54.91 S	7	35
2 (4.6)	.284 Cu; 3.12 S	37.3 (87.2)	5.3 Cu; 58.19 S	7	37
2 (4.6)	.284 Cu; 3.12 S	29.5 (69.1)	4.12 Cu; 45.24 S	7	29
2 (4.6)	.284 Cu; 3.12 S	55.6 (130)	7.9 Cu; 86.74 S	7	52
2 (4.6)	.284 Cu; 3.12 S	56.3 (132)	8 Cu; 87.83 S	7	56

CROP -DISEASE CONTROLLED	APPLICATION AMOUNT				APPLICATION GUIDE
	Quarts / Acre	Liters / Hectare	Equal lbs. Cu/Acre (Cu/Hectare)	Equal lbs./Acre (S/Hectare)	
Onions -Purple Blotch -Downy Mildew	2-3	4.6-6.9	.284- .426 (.69-1.035)	3.12-4.68 (1.26-1.9)	Begin when plants are 4 to 6 inches and repeat at 7 to 10 day intervals.
Pea (Field, Green & Sugar Snap) -Powdery Mildew	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply at first sign of disease. Repeat at 7 day intervals.
Peanuts -Early and Late <i>Cercospora</i> Leaf Spot -Rust	2-3	4.6-6.9	.284- .426 (.69-1.035)	3.12-4.68 (1.26-1.9)	Begin application 40 to 60 days after planting; maintain a spray schedule of every 10 to 14 days.
Peppers (Bell, Chili & Sweet) - <i>Cercospora</i> Leaf Spot (Frog Eye) -Bacterial Spot - <i>Anthracnose</i>	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Begin application with appearance of the disease. Maintain 7 to 10 day schedule until harvest begins.
Potatoes -Early and Late Blight	2-3	4.6-6.9	.284- .426 (.69-1.035)	3.12-4.68 (1.26-1.9)	Apply every 7 to 10 days throughout the season. Use higher rate as vines increase in size.
Soybeans -Pod and Stem Blight - <i>Cercospora</i> Leaf Spot - <i>Anthracnose</i> -Brown Spot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Make first application when pods are 1/8" to 1/2" long (early pod set). Additional applications at 10-14 day intervals throughout the growing season may reduce the severity of disease.

**RESTRICTIONS**

<b>Max Single Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Max Annual Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Min. Retreatment Interval (days)</b>	<b>Max # apps Per Year (when applied at lowest rate)</b>
3 (6.9)	.426 Cu; 4.68 S	42.2 (98.7)	6 Cu; 65.83 S	7	21
2 (4.6)	.284 Cu; 3.12 S	27.8 (65)	3.95 Cu; 43.37 S	7	27
3 (6.9)	.426 Cu; 4.68 S	33.3 (78)	4.74 Cu; 51.95 S	10	16
2 (4.6)	.284 Cu; 3.12 S	83.3 (195)	11.85 Cu; 129.95 S	7	52
3 (6.9)	.426 Cu; 4.68 S	176 (411)	25 Cu; 274.56 S	7	52
2 (4.6)	.284 Cu; 3.12 S	33.3 (78)	4.74 Cu; 51.95 S	10	33

CROP -DISEASE CONTROLLED	APPLICATION AMOUNT				APPLICATION GUIDE
	Quarts / Acre	Liters / Hectare	Equal lbs. Cu/Acre (Cu/Hectare)	Equal lbs.S/Acre (S/Hectare)	
Spinach -Downy Mildew (Blue Mold) -White Rust -Cercospora Leaf Spot	2-3	4.6-6.9	.284- .426 (.69-1.035)	3.12-4.68 (1.26-1.9)	Apply at first sign of disease and repeat at 7 to 10 day intervals or as required for adequate control.
Sugar Beets -Cercospora Leaf Spot -Downy and Powdery Mildew	2-4	4.6-9.2	.284- .568 (.69-1.38)	3.12-6.24 (1.26-2.53)	Begin application before or at first appearance of disease. Repeat at 10 to 14 day intervals for 3 to 6 treatments.
Tomatoes -Early and Late Blight -Downy and Powdery Mildew -Septoria Blight -Anthracnose -Bacterial Speck -Bacterial Spot	2-3	4.6-6.9	.284- .426 (.69-1.035)	3.12-4.68 (1.26-1.9)	Begin when disease first threatens and repeat at 5 to 10 day intervals.
Wheat -Powdery Mildew -Leaf Rust	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Make application at first appearance of disease. Repeat at 2 week intervals if disease conditions persist. PRECAUTION: Some varieties of wheat may be sensitive to copper. Do not make applications at excessively high temperatures.

**RESTRICTIONS**

<b>Max Single Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Max Annual Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Min. Retreatment Interval (days)</b>	<b>Max # apps Per Year (when applied at lowest rate)</b>
3 (6.9)	.426 Cu; 4.68 S	27.8 (65)	3.95 Cu; 43.37 S	7	13
4 (9.2)	.568 Cu; 6.24 S	55.3 (129)	7.86 Cu; 86.27 S	10	27
3 (6.9)	.426 Cu; 4.68 S	122 (17.4)	17.4 Cu; 190.32 S	5	61
2 (4.6)	.284 Cu; 3.12 S	7.46 (17.4)	1.06 Cu; 11.64 S	14	7

CROP -DISEASE CONTROLLED	APPLICATION AMOUNT				APPLICATION GUIDE
	Quarts / Acre	Liters / Hectare	Equal lbs. Cu/Acre (Cu/Hectare)	Equal lbs.S/Acre (S/Hectare)	
COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Mustards, Radishes, Turnips) -Downy Mildew -Leaf Spot -Black Rot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Begin application as soon as disease threatens and repeat at 7 to 10 day intervals. Use at 3 day intervals in plant beds.
CUCURBITS (Cantaloupe, Cucumbers, Muskmelon, Pumpkin, Squash, Watermelon) -Downy and Powdery Mildew	0.5-1	1.1-2.3	.071-.142 (.165-.345)	.78-1.56 (.32-.63)	Begin application when plants start to run or disease first appears. Repeat sprays at 7 to 10 day intervals through season.

**RESTRICTION:** Cucurbits are sensitive to sulfur and some plant injury may occur. Applications need to be made during times that lower temperatures are expected (evening). Use the lower rates if air temperatures are over 75°F and do not apply if air temperatures are expected to be over 90°F.

**RESTRICTIONS**

<b>Max Single Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Max Annual Use Rate Quarts/Acre (Liters / Hectare)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Min. Retreatment Interval (days)</b>	<b>Max # apps Per Year (when applied at lowest rate)</b>
2 (4.6)	.284 Cu; 3.12 S	18.6 (43.6)	2.65 Cu; 29.02 S	7	18
1 (2.3)	.142 Cu; 1.56 S	36.9 (86.4)	5.25 Cu; 57.56 S	7	52

CROP -DISEASE CONTROLLED	AMOUNT				APPLICATION GUIDE
	Qt/100 Gal Water	Lt/1000 Lt Water	Equal lbs. Cu / Acre (Cu/ Hectare)	Equal lbs. S / Acre (S / Hectare)	
FRUIT, VINE AND NUT CROPS					
Almonds -Shot Hole -Brown Rot	2-4	5-10	.284-.568 (.75-1.5)	3.12-6.24 (1.26-2.53)	Apply as a dormant spray or during swelling bud stage to early bloom state (popcorn). To avoid injury, apply prior to 50% bloom or after petal fall.
Apricots -Shot Hole -Brown Rot	4-6	10-15	.568-.852 (1.5-2.25)	6.24-9.36 (2.53-3.79)	Apply as delayed dormant or swelling bud to popcorn stage. Avoid spraying when in leaf, as injury may occur.
Avocados -Anthracnose -Cercospora Fruit Spot -Scab	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply with foliar spray when blossoms buds open. Repeat at 4 week intervals for a total of 5 applications.
	<b>Qt / Acre</b>	<b>Lt / Ha</b>			
Bananas -Sigatoka Disease (Cercospora Leaf Spot)	2-3	4.6-6.9	.284-.426 (.69-1.035)	3.12-4.68 (1.26-1.9)	Apply foliar applications on a 14 day schedule during the wet season and a 21 day schedule during dry season. Add an approved spray adjuvant as spreader-sticker including Natur'l Oil.

**RESTRICTIONS**

<b>Max Single Use Rate (Quarts /Acre)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Max Annual Use Rate (Quarts/Acre)</b>	<b>Equal Lbs a.i./Acre</b>	<b>Min. Retreatment Interval</b>	<b>Max # apps Per Year (when applied at lowest rate)</b>
Dormant, late dormant					
4 (9.2)	.568 Cu; 6.24 S	127 (296)	18 Cu; 198.12 S	7	52
Bloom/growing season					
4 (9.2)	.568 Cu; 6.24 S	127 (296)	18 Cu; 198.12 S	5	63
Dormant, late dormant, up to pink bud					
6 (15)	.852 Cu; 9.36 S	127 (296)	18 Cu; 198.12 S	7	31
Bloom, growing season					
6 (15)	.852 Cu; 9.36 S	127 (296)	18 Cu; 198.12 S	5	31
2 (4.6)	.284 Cu; 3.12 S	133 (311)	18.9 Cu; 207.48 S	28	5
3 (6.9)	.426 Cu; 4.68 S	133 (311)	18.9 Cu; 207.48 S	14	26

CROP -DISEASE CONTROLLED	AMOUNT				APPLICATION GUIDE	
	Qt/100 Gal Water	Lt/1000 Lt Water	Equal lbs. Cu / Acre (Cu/ Hectare)	Equal lbs. S / Acre (S / Hectare)		
FRUIT, VINE AND NUT CROPS						
Cherries -Brown Rot	3/4-7/8	1.9-2.2	.107-.124 (.285-.33)	1.17-1.37 (.47-.55)	Pink and bloom spray. Petal Fall shuck and cover sprays.	
-Leaf Spot	1/2-7/8	1.2-2.2	.071-.124 (.18-.33)	.78-1.37 (.32-.55)		
Citrus (citron, grapefruit, kumquat, lemon, orange, pummelo, tangelo, tangerine, lime) -Brown Rot -Melanose -Scab	4 6 6	10 15 15	.586 (1.5) .852 (2.25) .852 (2.25)	6.24 (2.53) 9.36 (3.79) 9.36 (3.79)	Begin application in fall, just before or just after first heavy rains. Apply 1 to 3 weeks after petal fall. Repeat in 4 weeks if there has been a history of the disease, a wet spring or late or scattered bloom. Apply two sprays, use before trees begin to flush and at 2/3 petal fall.	
	<b>Qt / Acre</b>	<b>Lt / Ha</b>				
Cranberries -Fruit Rot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)		Start foliar sprays at mid-bloom and repeat at 7-10 day intervals as required.
Grapes -Downy and Powdery Mildew -Bunch Rot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)		
Hops -Downy Mildew -Powdery Mildew	4	10	.586 (1.5)	6.24 (2.53)	Apply as a wetting spray, as a crown treatment (after pruning but before training). After training, treat at 10 day intervals. Discontinue use 2 weeks before harvest.	

**RESTRICTIONS**

Max Single Use Rate (Quarts /Acre)	Equal Lbs a.i./Acre	Max Annual Use Rate (Quarts/Acre)	Equal Lbs a.i./Acre	Min. Retreatment Interval	Max # apps Per Year (when applied at lowest rate)
Dormant, late dormant, up to pink bud					
7/8 (2.2)	.124 Cu; 1.37 S	127 (296)	18 Cu; 198.12 S	7	52
Bloom, growing season					
7/8 (2.2)	.124 Cu; 1.37 S	127 (296)	18 Cu; 198.12 S	5	73
6 (15)	.852 Cu; 9.36 S	88.6 (207)	12.6 Cu; 138.22 S	30	2
2 (4.6)	.284 Cu; 3.12 S	88.6 (207)	12.6 Cu; 138.22 S	7	52
2 (4.6)	.284 Cu; 3.12 S	141 (329)	20 Cu; 219.96 S	10	36
4 (9.2)	.568 Cu; 6.24 S	18.6 (43.6)	2.65 Cu; 29.02 S	10	4

CROP -DISEASE CONTROLLED	AMOUNT				APPLICATION GUIDE
	Qt/100 Gal Water	Lt/1000 Lt Water	Equal lbs. Cu / Acre (Cu/ Hectare)	Equal lbs. S / Acre (S / Hectare)	
FRUIT, VINE AND NUT CROPS					
Mango -Anthracnose	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply in foliar sprays when first bloom clusters appear. Repeat weekly until fruit set and then spray monthly for a total of 5-12 applications, depending on area.
Olive -Peacock Spot	2-3	5-7.5	.284-.426 (.75- 1.125)	3.12-4.68 (1.26-1.9)	Apply as a foliar spray in fall as disease is expected.
Papaya -Anthracnose	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply as a foliar spray as disease is expected
Peach and Nectarines -Powdery Mildew	¾ to 1 ½	1.9 to 3.8	.107-.213 (.285-.57)	1.17-2.34 (.47-.95)	Pink and bloom spray.
-Brown Rot	1 to 1 7/8	1.2 to 4.7	.142-.226 (.18-.705)	1.56-2.93 (.63-1.19)	Petal fall, shuck and cover sprays. Shuck split through pre-harvest
-Leaf Spot Scab	1 7/8	4.7	.266 (.705)	2.93 (1.19)	
Pears -Fire Blight -Bulls Eye Rot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply at 10% bloom and continue every 5 to 7 days throughout bloom. Use only where prior use shows safety to varieties in area. Apply as a foliar application before harvest. Add an approved spray adjuvant as spreader-sticker including Natur'l Oil.
Pecans -Scab	2-3	5-7.5	.284-.426 (.75-1.125)	3.12-4.68 (1.26-1.9)	Apply as foliar spray when catkins show. Repeat 3 to 4 times at 3 week intervals.

**RESTRICTIONS**

Max Single Use Rate (Quarts /Acre)	Equal Lbs a.i./Acre	Max Annual Use Rate (Quarts/Acre)	Equal Lbs a.i./Acre	Min. Retreatment Interval	Max # apps Per Year (when applied at lowest rate)
2 (4.6)	.284 Cu; 3.12 S	338 (790)	48 Cu; 527.28 S	7	52
3 (6.9)	.426 Cu; 4.68 S	127 (296)	18 Cu; 198.12 S	30	12
2 (4.6)	.284 Cu; 3.12 S	149 (349)	21.2 Cu; 232.44 S	7	52
Dormant, late dormant, up to pink bud					
1 7/8 (4.7)	.266 Cu; 2.93 S	127 (396)	18 Cu; 198.12 S	7	52
Bloom, growing season					
1 7/8 (4.7)	.266 Cu; 2.93 S	127 (396)	18 Cu; 198.12 S	5	73
Fall, late dormant					
2 (4.6)	.284 Cu; 3.12 S	113 (263)	16 Cu; 176.28 S	365	1
Between silver-tip and green-tip					
2 (4.6)	.284 Cu; 3.12 S	113 (263)	16 Cu; 176.28 S	365	1
Bloom, growing season					
2 (4.6)	.284 Cu; 3.12 S	113 (263)	16 Cu; 176.28 S	5	73
3 (6.9)	.426 Cu; 4.68 S	59.1 (138)	8.4 Cu; 92.20 S	21	5

CROP -DISEASE CONTROLLED	AMOUNT				APPLICATION GUIDE
	Qt/100 Gal Water	Lt/1000 Lt Water	Equal lbs. Cu / Acre (Cu/ Hectare)	Equal lbs. S / Acre (S / Hectare)	
FRUIT, VINE AND NUT CROPS					
Plums and Prunes -Brown Rot	3/4-7/8	1.9-2.2	.107-.124 (.285-.33)	1.17-1.37 (.47-.55)	Pink and bloom spray Petal fall shuck and cover sprays.
-Leaf Spot	1/3-7/8	1.2-2.2	.047-.124 (.18-.33)	.52-1.37 (.21-.55)	
	<b>Qt / Acre</b>	<b>Lt / Ha</b>			
Raspberry, Boysenberry, Dewberry, Loganberry -Anthracnose -Leaf and Cane Rot	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply as a foliar spray when leaf buds begin to open. Repeat when flower buds show white and continue at 7 to 14 day intervals.
Strawberries -Downy Mildew	1-2	2.3-4.6	.142-.284 (.35-.69)	1.56-3.12 (.63-1.26)	Apply delayed dormant and after leaves form at 10 to 14 day intervals.
Walnuts -Blight ( <i>Xanthomonas</i> )	1-3	2.5-7.5	.142-.426 (.375- 1.125)	1.56-4.68 (.63-1.9)	Begin application at pre-bloom and continue at 7 to 10 day intervals until fruit set.

**RESTRICTIONS**

Max Single Use Rate (Quarts /Acre)	Equal Lbs a.i./Acre	Max Annual Use Rate (Quarts/Acre)	Equal Lbs a.i./Acre	Min. Retreatment Interval	Max # apps Per Year (when applied at lowest rate)
Dormant, late dormant, up to pink bud					
7/8 (2.2)	.124 Cu; 1.37 S	127 (296)	18 Cu; 198.12 S	7	52
Bloom, growing season					
7/8 (2.2)	.124 Cu; 1.37 S	127 (296)	18 Cu; 198.12 S	5	73
2 (4.6)	.284 Cu; 3.12 S	70.3 (164)	10 Cu; 109.67 S	7	52
2 (4.6)	.284 Cu; 3.12 S	57.6 (135)	8.19 Cu; 89.86 S	10	36
3 (6.9)	.426 Cu; 4.68 S	225 (526)	32 Cu; 351 S	7	52

CROP -DISEASE CONTROLLED	AMOUNT				APPLICATION GUIDE
	Qt/100 Gal Water	Lt/1000 Lt Water	Equal lbs. Cu / Acre (Cu/ Hectare)	Equal lbs. S / Acre ( S / Hectare)	
SEED TREATMENT	fluid ounces per cwt	grams per Kg			
Soybeans -Damping-off Seedling Diseases	8-12	5-7.5	n/a	n/a	For planter boxes place 1/2 the seed in box and pour the specified amounts of TOP COP over the surface and mix by stirring with a stick or paddle until seed is covered. Add remaining 1/2 of seed and TOP COP and stir as above. Treated seed must not be used for food, feed or oil purposes. Metal treaters and planting equipment must be thoroughly rinsed with water after use as sulfur can be corrosive.

#### NUTRIENT USE

Foliage applications as directed will provide sulfur and copper for the plant nutrient requirements and must be considered in the total fertilizer applications.

RESTRICTIONS

Max Single Use Rate (Quarts /Acre)	Equal Lbs a.i./Acre	Max Annual Use Rate (Quarts/Acre)	Equal Lbs a.i./Acre	Min. Retreatment Interval	Max # apps Per Year (when applied at lowest rate)
n/a	n/a	n/a	n/a	n/a	n/a

## STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

**PESTICIDE STORAGE:** Store in a dry location away from children, animals, foods, feeds, seeds or other agricultural chemicals. Store above 30°F. Stack pails or cases three high on the pallet. Do not stack pallets. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel usable product in a sound container. Avoid prolonged storage or exposure to mild steel.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Use label language appropriate for container size and type.

**Nonrefillable containers.** Do not reuse or refill this container. Clean container promptly after emptying.

**Nonrefillable containers equal to or less than 5 gallons.** Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. Or incineration or, if allowed by state and local authorities, by burning. If burning, stay out of smoke.

**Nonrefillable container greater than 5 gallons.** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300**

**NOTICE-**Read carefully.

**Conditions of Sale:** Stoller (and Seller) offer(s) this product for sale subject to (and buyer and all users are deemed to have accepted) the following conditions of sale and warranty which may only be varied by written agreement of a duly authorized representative of Stoller.

**Warranty Limitations:** Stoller warrants this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to below. To the extent consistent with applicable law, Stoller makes no other express warranties. There is no implied warranty of merchantability and there are no warranties which extend beyond the description on this label. **Inherent Risks:** The directions for use of this product are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks associated with use. To the extent consistent with applicable law, buyer assumes all risks associated with use or application of this product contrary to label instructions or resulting from extraordinary weather conditions. **Limitation of Liability:** To the extent consistent with applicable law, Stoller shall not be liable for special, indirect or consequential damages resulting from the use or handling of this product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.

# TOP COP™ With Sulfur

Flowable Fungicide/Bactericide



## ACTIVE INGREDIENTS:

Sulfur, as elemental .....	50.0%
Basic copper sulfate* .....	8.4%

## OTHER INGREDIENTS:

Total .....	100.00%
-------------	---------

(\*Metallic copper equivalent 4.7%. Contains 0.142 lbs. of copper as metallic per quart of product and 0.57 lbs. of copper as metallic per gallon of product). (2.84 kgs. Sulfur and 0.45 kgs basic copper sulfate per gallon).

## GUARANTEED ANALYSIS

Sulfur (S) .....	50.0%
Copper (Cu) .....	4.7%

Derived from elemental sulfur and copper sulfate.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

EPA Reg. No. 57538-6 EPA Est. No. 57538-FL-1, 57538-IA-1, 57538-TX-2

### FIRST AID

If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment. Have a person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If in eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300

### PRECAUTIONARY STATEMENTS

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, gloves made of any waterproof material including polyethylene or polyvinyl chloride, shoes plus socks and protective eyewear. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### STORAGE AND DISPOSAL DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

**PESTICIDE STORAGE:** Store in a dry location away from children, animals, foods, feeds, seeds or other agricultural chemicals. Store above 30°F. Stack pallets or cases three high on the pallet. Do not stack pallets. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel usable product in a sound container. Avoid prolonged storage or exposure to mild steel. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Use label language appropriate for container size and type. **Nonrefillable containers.** Do not reuse or refill this container. Clean container promptly after emptying. **Nonrefillable containers equal to or less than 5 gallons.** Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning, if burning, stay out of smoke. **Nonrefillable container greater than 5 gallons.** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning, if burned, stay out of smoke.

### NET CONTENTS: Density: 11.9 lbs/gallon or 1.43 kg/L

<input type="checkbox"/> 2.5 Gallons (29.8 lbs)	<input type="checkbox"/> 4 Liters (5.72 kg)
<input type="checkbox"/> 5 Gallons (59.5 lbs)	<input type="checkbox"/> 10 Liters (14.3 kg)
<input type="checkbox"/> 30 Gallons (357 lbs)	<input type="checkbox"/> 20 Liters (28.6 kg)
<input type="checkbox"/> 55 Gallons (654.5 lbs)	<input type="checkbox"/> 208 Liters (297.44 kg)
<input type="checkbox"/> 275 Gallons (3272.5 lbs)	

Manufactured and Guaranteed by **STOLLER ENTERPRISES, INC.**  
9090 Katy Freeway, Suite 400 Phone (713) 461-1493  
Houston, Texas 77024 U.S.A. Fax (713) 465-1533

PEEL BACK BOOK HERE AND RESEAL  
AFTER OPENING