



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

November 1, 2024

SENT BY EMAIL

Arianna Shorey
arianna@pyxisrc.com
TESSENDERLO KERLEY, INC.

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 - Minor revisions to provide clarity and consistency in label text.
Product Name: LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE
Admin Number: 61842-30
EPA Receipt Date: 08/14/2023
Action Case Number: 00479442

Dear Arianna Shorey:

The U.S. Environmental Protection Agency is in receipt of your application for notification under Pesticide Registration Notice 98-10 for the above referenced product. The EPA has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have questions, please contact Raven Crosby via email at crosby.raven@epa.gov.

Sincerely,

Kable Bo Davis

Kable Bo Davis, Senior Advisor
FB, RD
Office of Pesticide Programs



Tessenderlo
KERLEY, Inc.

LIME SULFUR	GROUP	M2	FUNGICIDE
LIME SULFUR	GROUP	UN	INSECTICIDE

Not for residential use or application to residential sites. This product may not be used in, on, or around any structure, vehicle, article, surface or area associated with the household, including non-agricultural outbuildings, non-commercial greenhouses, pleasure boats, and recreational vehicles; in or around any preschool or day care facility or on humans or pets.

LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE

ACTIVE INGREDIENTS:

Calcium Polysulfide
OTHER Ingredients
TOTAL

BY WEIGHT

29.0%
71.0%
100.0%

NOTIFICATION

61842-30

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

11/01/2024

DENSITY:

Baume at 60 °F 31 °
Lbs. per Gallon at 68 °F 10.6

Contains Calcium and Sulfur expressed as Gypsum – 3.0 lbs. per gallon. Other combined Sulfur – 1.9 lbs. per gallon.

EPA Reg. No.61842-30

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If in eyes:	<ul style="list-style-type: none">• Hold eyes open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice• Have person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to do so by the poison control center or doctor.• DO NOT give anything to an unconscious person.
HOT LINE NUMBER:	Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-866-374-1975 for emergency medical treatment information.
NOTE TO PHYSICIAN	Probable mucosal damage may contraindicate the use of gastric lavage.

NET CONTENTS: _____ GALLONS

Manufactured by:

Tessenderlo Kerley, Inc.
2910 North 44th Street, Suite 100
Phoenix, AZ 85018
1-888-732-8246

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. **DO NOT** get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are made of any waterproof material.

Mixers, loaders, applicators and other handlers must wear:

Coveralls over long-sleeved shirt and long pants,

Chemical resistant gloves (barrier laminate; butyl, nitrile, neoprene or natural rubber \geq 14 mils; polyethylene; polyvinyl chloride (PVC) \geq 14 mils; viton \geq 14 mils)

Chemical resistant footwear plus socks,

Goggles or face shield,

Chemical resistant headgear for overhead exposure,

Chemical resistant apron when mixing, loading or cleaning equipment or spills.

USER SAFETY REQUIREMENTS

Discard clothing and other absorbent material that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing / PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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. Drift may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

PHYTOTOXICITY AND NON-TARGET ORGANISM ADVISORY STATEMENT

This product may be toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect non-target plants, and the forage and habitat of non-target organisms, by following label directions intended to minimize spray drift.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix Lime-Sulfur Solution Agricultural Fungicide with acids or phosphate fertilizer products. Deadly and potentially extremely flammable hydrogen sulfide gas may be emitted.

DIRECTIONS FOR USE

It is a violation of 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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Lime-Sulfur Solution Agricultural Fungicide contains a Group M2 fungicide and Group UN insecticide. Any fungal population may contain individuals naturally resistant to Lime-Sulfur Solution Agricultural Fungicide and other Group M2 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies must be followed.

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

- Rotate the use of Lime-Sulfur Solution Agricultural Fungicide or other Group M2 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides 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 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 applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM guidance for specific crops and pathogens.
- For further information or to report suspected resistance contact Tessenderlo Kerley, Inc. at 800-669-0559. You can also contact your pesticide distributor or university extension specialist to report resistance.

To delay insecticide resistance, take the following steps:

- Rotate the use of Lime-Sulfur Solution Agricultural Fungicide or other Group UN insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. **DO NOT** rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following guidance provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures need to be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - Do not use mixtures with components having the same IRAC mode of action classification for insect resistance management.
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM guidance for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Tessenderlo Kerley, Inc. at 800-669-0559.

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, 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, goggles or face shield, chemical resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

DO NOT enter or allow others to enter treated areas until sprays have dried.

INSTRUCTIONS FOR USE

Some fruits and other plants are susceptible to injury from sulfur under certain climatic conditions. The user is advised not to use sulfur on any crop unless local use has proved that sulfur does not damage crops in that locality.

USE PRECAUTIONS: Lime-Sulfur may burn foliage when temperature is high; avoid applying this material during very hot periods of the day (above 85°F).

Keep container tightly closed when not in use. If crust forms on the surface, break through the crust so product will pour.

Unless otherwise indicated, the following use rates are per 100 gallons of water. Where a rate range is given, use the higher rates when disease is severe or where disease was severe in the previous season.

RESTRICTIONS: Not for residential use or application to residential sites. This product may not be used in, on, or around any structure, vehicle, article, surface or area associated with the household, including non-agricultural outbuildings, non-commercial greenhouses, pleasure boats and recreational vehicles; in or around any preschool or daycare facility or on humans or pets.

DO NOT apply, or allow to drift, to painted surfaces, as a permanent stain may result.

DO NOT combine Lime-Sulfur with other pesticides unless previous experience has shown them to be compatible. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

DO NOT apply this product through any type of irrigation system.

DO NOT apply this product to harvested fruit.

DO NOT use this product within 30 days of an oil spray at any stage other than dormant (deciduous only) unless prior experience in your immediate area has shown that shorter intervals will not result in phytotoxic injury.

SPRAY DRIFT MANAGEMENT

SPRAY DRIFT

Airblast Applications:

- Sprays must be directed into the canopy.
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- **DO NOT** apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height specified by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 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 directed 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.

BOOM HEIGHT - Ground Boom

For ground equipment, the boom must remain level with the crop and have minimal bounce.

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 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.

SPRAY DRIFT

Handheld Technology: Applications:

- Take precautions to minimize spray drift

DILUTE SPRAY OR APPLICATION

For dilute applications, use higher gallonage (100-400 gal/acre) on larger trees where required.

CONCENTRATE SPRAY OR APPLICATION

For concentrate spray applications, use 100 gal/acre.

Restriction: When using concentrate sprays **DO NOT** exceed 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (36 lbs of Calcium Polysulfide) per 100 gallons on a per acre basis. (Rust mites and scale insects have been shown to be more effectively controlled with dilute or semi dilute applications.)

ALMONDS:

DORMANT for Powdery Mildew, Shothole – Apply 1 to 3 applications of 8 gallons of Lime-Sulfur Solution Agricultural Fungicide (24 lbs of Calcium Polysulfide) at two week intervals between November 15 and December 15.

DORMANT OR DELAYED DORMANT for Scab (*Cladosporium carpophilum*) apply 8 – 16 gallons of Lime-Sulfur Solution Agricultural Fungicide (24-48 lbs of Calcium Polysulfide) in 100 gallons per acre in a concentrate spray per acre. As a dilute spray apply 4 gallons of Lime-Sulfur Solution Agricultural Fungicide (12 lbs of Calcium Polysulfide).

PRE-BLOOM, EARLY BLOOM and FULL BLOOM for Brown Rot Blossom Blight – Apply $\frac{3}{4}$ to $1\frac{1}{2}$ gallons of Lime-Sulfur Solution Agricultural Fungicide (2.25-4.5 lbs of Calcium Polysulfide).

Use Restriction for Almonds:

- **DO NOT** apply more than 16 gallons of Lime-Sulfur Solution Agricultural Fungicide (48 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 46 gallons of Lime-Sulfur Solution Agricultural Fungicide (138 lbs of Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 14 applications per year when applied at reduced rates.
- Minimum Retreatment Interval is 14 days.
- Pre-harvest Interval is 0 days.

APPLES: DORMANT for Blister Mite, Rust Mite, Brown Mite, European Red Mite and San Jose Scale – Apply 6 to 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-33 lbs of Calcium Polysulfide), OR 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) plus $1\frac{1}{2}$ gallons supreme or superior type oil spray. For Blister Mite and Rust Mite only – Apply 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide). NOTE: Apple Scab and Powdery Mildew are not controlled at the dormant stage.

DELAYED DORMANT for Blister Mite, Rust Mite, Apple Scab, Brown Mite, Powdery Mildew – Apply 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide). For Leaf Spot – Increase rate to $7\frac{1}{2}$ to 10 gallons of Lime-Sulfur Solution Agricultural Fungicide (22.5-30 lbs of Calcium Polysulfide). (See Growing Season Directions). For Scab only – Apply $1\frac{1}{2}$ to 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (4.5-6 lbs of Calcium Polysulfide), repeat in Pre-Pink and Pink stages.

PRE-PINK for Powdery Mildew, Apple Scab – Apply 2 to 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (6-9 lbs of Calcium Polysulfide). For Apple Scab repeat in Pink stage. For Powdery Mildew see Pink stage directions.

PINK for Powdery Mildew, Apple Scab – Apply $2\frac{1}{2}$ gallons of Lime-Sulfur Solution Agricultural Fungicide (7.5 lbs of Calcium Polysulfide) or 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide) plus 5 pounds of wettable sulfur. A Petal Fall application may be needed.

PRE-BLOOM for Blotch – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide), repeat at Petal Fall, and again 10 days later.

PETAL FALL for Blotch – (See Pre-Bloom directions) – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide)-~~gallons~~. Repeat in 10 days.

GROWING SEASON FOLIAR SPRAYS for Leaf Spot – Apply $\frac{1}{2}$ gallon of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide) (See Delayed Dormant directions).

Precaution: USE ON GOLDEN DELICIOUS APPLES (fruit) OR GINGER GOLD APPLES (fruit) MAY CAUSE INJURY.

POST-HARVEST (Late fall after temperatures cool (Mid-October to November) before the first frost): For Rust Mite, Blister Mite, San Jose Scale, Aphid and Mite eggs – Apply 3 to 5 gallons of Lime-Sulfur Solution Agricultural Fungicide (9-15 lbs of Calcium Polysulfide) plus $1\frac{1}{2}$ to 2 gallons of supreme or superior type oil. Apply to the apple trees after the fruit has been harvested.

Precaution: Post-Harvest applications of Lime Sulfur may cause early defoliation. Early Post-Harvest sprays (early to mid September) can retard tree growth and are not advised.

Use Restrictions for Apples:

- **DO NOT** apply more than 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (33 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 65 gallons of Lime-Sulfur Solution Agricultural Fungicide product (195 lbs of Calcium Polysulfide) per acre per year (for dormant, delayed dormant, pre-pink, pink, pre bloom, petal fall, growing season foliar sprays, and post harvest applications).
- If used with apple blossom thinning applications, **DO NOT** apply more than 137 gallons of Lime-Sulfur Solution Agricultural Fungicide product (411 lbs. of Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 22 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.

- Pre-harvest Interval is 0 days.

APPLES: BLOOM THINNING – [For use only in ID, NC, OR, PA, UT, VA and WA.]

Apple thinning at bloom is affected by numerous factors including but not limited to apple variety, overall condition of the tree, and weather conditions. Thinning programs using LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE **or** LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE + oil need to be considered on a case by case basis. In particular, apple varieties vary significantly in sensitivity to LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE application for bloom thinning. Additionally, temperature and moisture can have major impact on the effectiveness of LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE for bloom thinning.

Directions: Apply in adequate water volume (typically 100 to 200 gallons per acre) for full coverage of blossoms. Make application from king bloom (20% full bloom) to early petal fall, as side blooms are opening.

Use of spray oil in the LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE application will increase spray spreading, penetration and efficacy thus requiring lower rates of LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE. When using oil refer to the oil product label for specific use directions.

Rates for Easy-to-Thin Apple Varieties (see Table 1):

LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE alone: apply at 4 to 10% v/v solution

OR

LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE + Oil: apply LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE at 1 to 2% v/v in combination with one of the following oils: Fish Oil at 2% v/v; Dormant Petroleum Spray Oil 0.5% to 1% v/v; or Summer Petroleum Spray Oil at 1% to 1.5%, v/v.

Rates for Difficult-to-Thin Apple Varieties (see Table 1):

LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE alone: apply 6% to 12% v/v solution.

OR

LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE + Oil: apply LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE at 1 to 3% v/v in combination with one of the following oils: Fish Oil at 2% v/v; Dormant Petroleum Spray Oil at 0.5% to 1% v/v; or Summer Petroleum Spray Oil at 1 to 1.5% v/v.

Table 1. Examples of sensitivity to LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE applied for bloom thinning by apple variety¹

Easy-to-thin Apple Varieties	Braeburn, Cripps Pink, Gala, Granny Smith, Honeycrisp, Jonagold, Red Delicious
Difficult-to-thin Apple Varieties	Cameo, Fuji, Golden Delicious, Pacific Rose

¹ These are varieties that have been reported as easy or difficult to thin, however, the success of bloom thinning will vary from year to year and by geography. It is advised the grower determines use of LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE for bloom thinning based on experience, environmental conditions, and local expertise.

Use Restrictions for Bloom Thinning:

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** make more than three applications of LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE for blossom thinning per growing season.
- For applications of LIME-SULFUR SOLUTION to varieties other than those listed on this label, a phytotoxicity test and/or consultation with a local thinning expert is advised. [For use as an apple blossom thinner only in ID, NC, OR, PA, UT, VA and WA.]
- **DO NOT** apply more than 72 gallons of Lime-Sulfur Solution Agricultural Fungicide product (216 lbs Calcium Polysulfide) per acre per year for bloom thinning.
- **DO NOT** tank mix with other chemicals, surfactants or spray adjuvants other than those listed on this label.
- If temperature is above 80 degrees, or is expected to exceed 90 degrees within 24 hours **DO NOT** apply LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE because application under these temperature conditions may cause over thinning or damage to fruit finish.
- If slow drying conditions or wet weather is expected, **DO NOT** make application for blossom thinning.

Use Precautions for Bloom Thinning: If lime sulfur is used on apples for pest control purposes up to 10 days before or after blossom thinning sprays, the overall thinning response may be increased. For apple varieties sensitive to sulfur (e.g., Braeburn), use lower rates and only 1 to 2 applications per season. Be sure to use additives at indicated rates. If using Fish Oil, make sure it is of uniform consistency. Any spray oils used in combination with this product must be labeled for use during bloom, and must not prohibit tank mixing with lime sulfur. Reduce the number of applications per season or lower the use rate for blossom thinning for trees that are under stress or low vigor (e.g. trees with natural fruit set reduced by poor pollination conditions, frost, or other factors; trees with less than 12 inches of shoot growth in top of tree in prior season, etc.). Take care not to over treat the lower portion of the tree nearest the spray boom. Making application at higher pressure and

with smaller nozzles can reduce phytotoxicity. Use of this product as an apple blossom thinner can lead to crop injury, loss, or damage. Please see the Warranty and Limitations of Damages for Apple Blossom Thinning at the end of this label.

BLUEBERRIES: Phomopsis Cane and Twig Blight – Apply 5 to 6 gallons of Lime-Sulfur Solution Agricultural Fungicide (15-18 lbs of Calcium Polysulfide) per 100 to 150 gallons of diluted spray per acre. Apply during delayed dormant stage after leaf buds begin to break.

To aid control of Mummy Berry (caused by the fungus *Monilinia vaccinii-corymbosi*), apply a post harvest (September to October) or early dormant spray of 8 gallons of Lime-Sulfur Solution (24 lbs of Calcium Polysulfide) per 100 gallons of water. Use 200 to 300 gallons of spray per acre.

Use Restrictions for Blueberries:

- **DO NOT** use within 14 days of an oil spray or when temperatures are above 85°F. Burning of foliage may occur during period of warm temperatures.
- **DO NOT** apply more than 24 gallons of Lime-Sulfur Solution (72 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 48 gallons of Lime-Sulfur Solution Agricultural Fungicide product (144 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

CANE BERRIES: (including Blackberries, Boysenberries, Raspberries, and other caneberries.)

FALL application for Red Berry Mite, Blackberry Leaf Mite – Apply 8 gallons of Lime-Sulfur Solution Agricultural Fungicide (24 lbs of Calcium Polysulfide) after old canes have been removed from the field.

DORMANT OR DELAYED DORMANT (Green Bud) for Anthracnose, Cane Blight, Powdery Mildew, Overwintering Spores, Rust – Apply 6 to 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-36 lbs of Calcium Polysulfide). For Spur Blight – Apply one spray at 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (36 lbs of Calcium Polysulfide) or two sprays at 10 gallons of Lime-Sulfur Solution Agricultural Fungicide (30 lbs of Calcium Polysulfide) before buds break and show silver. For Overwintering Spores only – Apply 2 1/3 gallons of Lime-Sulfur Solution Agricultural Fungicide (8 lbs of Calcium Polysulfide).

DELAYED DORMANT or when leaf buds first start to open for Red Berry (Blackberry mite), Rose Scale, Oyster Scale, San Jose Scale, and Yellow Rust – Apply 8 gallons of Lime-Sulfur Solution Agricultural Fungicide (24 lbs of Calcium Polysulfide).

EARLY SPRING when new growth is 1½ inches long, use 5 gallons of Lime-Sulfur Solution Agricultural Fungicide (15 lbs of Calcium Polysulfide) for the control of Rose Scale, Oyster Scale, San Jose Scale, and Yellow Rust. When fruiting canes are 8 to 12 inches long and before blossoms have opened – for Anthracnose, Cane Blight, Powdery Mildew and Rust – Apply 8 1/3 gallons of Lime-Sulfur Solution Agricultural Fungicide (25 lbs of Calcium Polysulfide). **Restriction: DO NOT** use on raspberries at this timing.

Use Restriction for Caneberries:

- **DO NOT** apply more than 12 gallons of Lime-Sulfur Solution (36 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 32 gallons of Lime-Sulfur Solution Agricultural Fungicide product (96 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

CHERRIES (SWEET): DELAYED DORMANT for Powdery Mildew – Apply 7½ gallons of Lime-Sulfur Solution Agricultural Fungicide (22.5 lbs of Calcium Polysulfide). For the control of Coryneum Blight, Scale Insects, Peach Twig Borer, Leaf Curl, Silver Mites – Apply 6 to 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-33 lbs of Calcium Polysulfide) per 100 gallons of spray or at a rate of 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) with 1½ gallons of superior type oil per 100 gallons for additional control of Brown Mites and Red Mites.

POST-HARVEST for Brown Mites, Two Spotted Mite – Apply 1 gallon of Lime-Sulfur Solution Agricultural Fungicide (3 lbs of Calcium Polysulfide) plus 4 pounds wettable sulfur. Apply to the cherry trees after the fruit has been harvested.

POST-HARVEST for Powdery Mildew – Apply 10 to 20 gallons of Lime-Sulfur Solution Agricultural Fungicide (30-60 lbs of Calcium Polysulfide) per acre in sufficient water for coverage. Apply to the cherry trees after the fruit has been harvested.

CHERRIES (TART): DELAYED DORMANT for the control of Coryneum Blight, Scale Insects, Peach Twig Borer, Leaf Curl, Silver Mites – Apply 6 to 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-33 lbs of Calcium Polysulfide) per 100 gallons of spray or at a rate of 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) with 1½ gallons of superior type oil per 100 gallons for additional control of Brown Mites and Red Mites.

PRE-BLOOM, EARLY BLOOM and FULL BLOOM for Brown Rot Blossom Blight, Leaf Spot, Scab – Apply up to 3 sprays at 1½ gallons of Lime-Sulfur Solution Agricultural Fungicide (4.5 lbs of Calcium Polysulfide).

LATE SEASON for Brown Rot (Fruit), Leaf Spot, Powdery Mildew – Use ½ gallon of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide). Apply 3 to 5 sprays at weekly intervals until harvest.

POST-HARVEST for Brown Mites, Two Spotted Mite – Apply 1 gallon of Lime-Sulfur Solution Agricultural Fungicide (3 lbs of Calcium Polysulfide) plus 4 pounds wettable sulfur. Apply to the cherry trees after the fruit has been harvested.

Use Restriction for Cherries (sweet and tart):

- **DO NOT** apply more than 20 gallons of Lime-Sulfur Solution (60 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 42 gallons of Lime-Sulfur Solution Agricultural Fungicide product (126 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 24 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

CITRUS: Red Spider Mites – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide) when the mites appear. Thrips – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide). Consult with your State Agricultural Experiment Station for guidance.

Rust Mites – JANUARY apply 1½ gallons of Lime-Sulfur Solution Agricultural Fungicide (4.5 lbs of Calcium Polysulfide). APRIL or MAY, AUGUST 15 to SEPTEMBER 15 and OCTOBER 15 to DECEMBER 15 – Apply 7½ pints of Lime-Sulfur Solution Agricultural Fungicide (2.8 lbs of Calcium Polysulfide) per 100 gallons. Tangerines must be sprayed during late winter and early spring (February 15 to April 15).

Precaution: Early and Mid-Season citrus may be injured by Lime-Sulfur sprays during summer and early fall months.

ORANGES (NAVEL and VALENCIA) for Flat Mite, Thrips, light infestations of Citrocicola Scale – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide) in winter between January 1 and March 15, but before new shoots exceed ½ inch in length. **DO NOT** apply where heavy copper residues are present.

Use Restriction for Citrus (including Oranges – Navel and Valencia):

- **DO NOT** apply more than 2 gallons of Lime-Sulfur Solution (6 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 40 gallons of Lime-Sulfur Solution Agricultural Fungicide product (120 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

HAZELNUTS – Big Bud Mite – (Not for use in California) – Apply 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (36 lbs of Calcium Polysulfide) per acre in sufficient water for complete coverage of trees (a minimum of 100 gallons of water per acre). Apply when buds begin to open in the spring.

Use Restriction for Hazelnuts:

- **DO NOT** apply more than 12 gallons of Lime-Sulfur Solution (36 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 40 gallons of Lime-Sulfur Solution Agricultural Fungicide product (120 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 4 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

CURRANTS, GOOSEBERRIES: BUD BREAK for Anthracnose – Apply 2½ gallons of Lime-Sulfur Solution Agricultural Fungicide (7.5 lbs of Calcium Polysulfide). Repeat 10 to 15 days later. Apply 3 pints of Lime-Sulfur Solution Agricultural Fungicide (1.125 lbs of Calcium Polysulfide) at 10 day intervals after second spray if needed.

PRE-BLOOM and POST-BLOOM for Powdery Mildew – Apply 1½ quarts of Lime-Sulfur Solution Agricultural Fungicide (1.125 lbs of Calcium Polysulfide).

Use Restriction for Currants and Gooseberries:

- **DO NOT** apply more than 2½ gallons of Lime-Sulfur Solution (7.5 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 40 gallons of Lime-Sulfur Solution Agricultural Fungicide product (120 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.

- Pre-harvest Interval is 0 days.

FRUIT TREES (BEARING): DORMANT for Overwintering Spores – Apply 3½ gallons of Lime-Sulfur Solution Agricultural Fungicide (10.5 lbs of Calcium Polysulfide).

FRUIT TREES (NON-BEARING): CLUSTER BUD and PRE-BLOOM for Blotch, Powdery Mildew, Scab – Apply 2½ quarts.

Use Restriction for Fruit Trees (bearing and non-bearing):

- **DO NOT** apply to apricots.
- **DO NOT** apply more than 3½ gallons of Lime-Sulfur Solution (10.5 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 46 gallons of Lime-Sulfur Solution Agricultural Fungicide product (138 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

GRAPES: DORMANT for Phomopsis – Prior to bud swell, apply 15 – 20 gallons of Lime-Sulfur Solution Agricultural Fungicide (45-60 lbs of Calcium Polysulfide) per acre in sufficient water for coverage. Spray to runoff.

During the DORMANT period for Powdery Mildew, Mealybugs – Apply 4 to 10 gallons of Lime-Sulfur Solution Agricultural Fungicide (12-30 lbs of Calcium Polysulfide) per acre in sufficient water for coverage.

During the growing season when new shoots are 4 to 6 inches long for Anthracnose, Powdery Mildew, Mealybugs – Apply 2 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide) in sufficient water for coverage. On mature foliage use 1 pint of Lime-Sulfur Solution Agricultural Fungicide (0.375 lb of Calcium Polysulfide) plus 4 pounds of wettable sulfur.

For later applications during the growing season for Powdery Mildew eradication – Apply 2 to 4 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5-3 lbs of Calcium Polysulfide) plus 1 to 4 pounds wettable sulfur, plus ½ pint Sulforix Foliage Spray per 100 gallons. Apply 300 gallons of spray mix per acre for thorough coverage.

Use Restrictions for Grapes:

- **DO NOT** apply after 5:00 a.m. or during the day when maximum temperatures are expected to exceed 85°F or sulfur burn may occur.
- **DO NOT** apply more than 20 gallons of Lime-Sulfur Solution (60 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 66 gallons of Lime-Sulfur Solution Agricultural Fungicide product (198 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

NECTARINES: EARLY WINTER and LATE DORMANT for Leaf Curl – Apply 6 gallons of Lime-Sulfur Solution Agricultural Fungicide (18 lbs of Calcium Polysulfide).

GROWING SEASON for Powdery Mildew – Apply 2 to 3 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5-2.25 lbs of Calcium Polysulfide) when disease appears. For Brown Rot, Leaf Spot, Shothole – Use 2 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide). Apply 3 to 5 times at weekly intervals until harvest.

Use Restriction for Nectarines:

- **DO NOT** apply more than 3 quarts (0.75 gallons) of Lime-Sulfur Solution (2.25 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 39 gallons of Lime-Sulfur Solution Agricultural Fungicide product (117 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 20 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

PEACHES: DORMANT for Peach Leaf Curl, Scab, Shothole – Apply 10 to 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (30-36 lbs of Calcium Polysulfide). For Leaf Curl only – Apply 6 to 8 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-24 lbs of Calcium Polysulfide) in full coverage spray. Apply after all leaves have fallen and before buds begin to swell. If Leaf Curl has been severe, two applications may be needed, the first in Early Dormant, the second in Delayed Dormant.

DORMANT OR DELAYED DORMANT for Scale Insects, Silver Mites, Peach Twig Borers, Coryneum Blight, Aphids – Apply 6 to 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-33 lbs of Calcium Polysulfide) per 100 gallons spray or 3

gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) per 100 gallons with 1½ gallons superior type oil for additional control of Brown Mites and Red Mites.

DELAYED DORMANT for Powdery Mildew – Apply 7½ gallons of Lime-Sulfur Solution Agricultural Fungicide (22.5 lbs of Calcium Polysulfide) at Green Tip, apply second spray at 4 to 5 gallons of Lime-Sulfur Solution Agricultural Fungicide (12-15 lbs of Calcium Polysulfide).

PRE-BLOOM, EARLY BLOOM and FULL BLOOM for Brown Rot Blossom Blight – Apply ¾ to 1½ gallons of Lime-Sulfur Solution Agricultural Fungicide (2.25-4.5 lbs of Calcium Polysulfide), one spray at each period if conditions require it.

SUMMER FOLIAGE SPRAYS for Powdery Mildew – Apply 1½ quarts of Lime-Sulfur Solution Agricultural Fungicide (1.125 lbs of Calcium Polysulfide). For Brown Rot, Powdery Mildew, Leaf Spot – Apply ½ to 1 gallon of Lime-Sulfur Solution Agricultural Fungicide (1.5-1 lb of Calcium Polysulfide) 3 to 5 times at weekly intervals until harvest. Avoid spraying during hot period of the day or during hot humid conditions. Spray only to the drip point, not to runoff, as excessive spray may cause injury.

Use Restriction for Peaches:

- **DO NOT** apply dormant spray to peaches immediately after or during periods of 5 days or more of unseasonably high temperatures if a sufficient number of dormant cold hours have occurred.
- **DO NOT** apply more than 12 gallons of Lime-Sulfur Solution (36 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 39 gallons of Lime-Sulfur Solution Agricultural Fungicide product (117 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 20 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days.

PEARS: **DORMANT** for Pear Leaf Blister Mite – Apply 5 to 7 gallons of Lime-Sulfur Solution Agricultural Fungicide (15-21 lbs of Calcium Polysulfide). May be combined with oils labeled for dormant use on pears.

DORMANT OR DELAYED DORMANT to prevent Pear Scab infections and to aid in the control of hatching eggs and young nymphs of Green Apple Aphid, Rosy Aphid, and Pear Psylla and to control Scab, Powdery Mildew, San Jose Scale, Rust Mite, Pear Leaf Blister Mite, European Red Mite, and Brown Almond Mite – Apply 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (33 lbs of Calcium Polysulfide).

DELAYED DORMANT for Pear Leaf Blister Mite, Rust Mite, European Red Mite, San Jose Scale, and Pear Psylla – Apply 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) plus 1½ gallons supreme or superior type oil. For Scab – Apply 6 gallons of Lime-Sulfur Solution Agricultural Fungicide (18 lbs of Calcium Polysulfide).

GREEN TIP TO FINGER BUD for Scab, Rust Mite, Powdery Mildew – Apply 6 gallons of Lime-Sulfur Solution Agricultural Fungicide (18 lbs of Calcium Polysulfide).

CRACKED BUD for Scab, Powdery Mildew – Apply 5 gallons of Lime-Sulfur Solution Agricultural Fungicide (15 lbs of Calcium Polysulfide).

CLUSTER BUD for Scab, Powdery Mildew – Apply 2 ½ gallons of Lime-Sulfur Solution Agricultural Fungicide (7.5 lbs of Calcium Polysulfide).

FINGER BUD for Scab, Powdery Mildew – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide).

PETAL FALL for Scab, Powdery Mildew – Apply 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide).

GROWING SEASON FOLIAR SPRAYS for persistent Powdery Mildew – Apply 1 2/3 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.25 lbs of Calcium Polysulfide) throughout the growing season as needed. For concentrate sprays follow State Agricultural Experiment Station guidance.

POST-HARVEST (Early to Mid-September): For Rust Mite, Pear Leaf Blister Mite – Apply 4 gallons of Lime-Sulfur Solution Agricultural Fungicide (12 lbs of Calcium Polysulfide) plus ¾ gallon supreme or superior type oil, OR 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (33 lbs of Calcium Polysulfide) with no oil, OR 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide) plus 4 pounds of wettable sulfur. Apply to the pear trees after the fruit has been harvested.

POST HARVEST (Late fall after temperatures cool (mid-October to November) before the first frost): For Scale Insects, Pear Psylla, Aphid and Mite Eggs, Pear Leaf Blister Mite – Apply 3 to 5 gallons of Lime-Sulfur Solution Agricultural Fungicide (9-15 lbs of Calcium Polysulfide) plus 1½ to 2 gallons of supreme or superior type oil. For Bud Mite (Pacific Coast States) – Apply when mites first penetrate under bud scales. Apply to the pear trees after the fruit has been harvested.

Use Restriction for Pears:

- **DO NOT** apply more than 11 gallons of Lime-Sulfur Solution (33 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 68 gallons of Lime-Sulfur Solution Agricultural Fungicide product (204 lbs. Calcium Polysulfide) per acre per year.

- **DO NOT** make more than 26 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days
- **DO NOT** use on d'Anjou, Comice or Seckle varieties after Delayed Dormant.
- **DO NOT** allow Post Harvest sprays to drift to adjacent apple orchards as defoliation may occur.
- Oils must not be used with Lime-Sulfur Solution Agricultural Fungicide except as indicated above.
- **DO NOT** apply oil after Lime-Sulfur Solution Agricultural Fungicide sprays as injury may occur. Allow a minimum of 10 days between a Delayed Dormant oil application and a later Lime-Sulfur Solution Agricultural Fungicide application.
- **DO NOT** apply Lime-Sulfur Solution Agricultural Fungicide if oil has been applied after Delayed Dormant. Allow 30 days between oil and Lime-Sulfur Solution Agricultural Fungicide sprays in the growing season, as injury may occur. Use only on Lime-Sulfur Solution Agricultural Fungicide tolerant varieties. Drought, cold and high temperatures, and other conditions may weaken trees.
- **DO NOT** apply Lime-Sulfur Solution Agricultural Fungicide or oils to trees in weakened condition.

PECANS: GROWING SEASON for Yellow Pecan Aphids and Mites (Tetranychidae and Eriophyidae) – Apply 1 gallon of Lime-Sulfur Solution Agricultural Fungicide (3 lbs of Calcium Polysulfide). For mature trees apply as a full coverage spray using 200 to 400 gallons of spray per acre (2 to 4 gallons Lime-Sulfur Solution Agricultural Fungicide (6-12 lbs of Calcium Polysulfide) per acre). For concentrate sprays apply 2 to 4 gallons of Lime-Sulfur Solution Agricultural Fungicide (6-12 lbs of Calcium Polysulfide) per acre. Thorough coverage is essential for control. For Yellow Aphids – Spray as needed to prevent excessive honeydew buildup. For Mites – Spray when infestation is first noticed.

Use Restriction for Pecans:

- **DO NOT** apply more than 4 gallons of Lime-Sulfur Solution (12 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 70 gallons of Lime-Sulfur Solution Agricultural Fungicide product (210 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 14 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days

PISTACHIOS: DORMANT or DELAYED DORMANT for suppression of Botryosphaeria Panicle and Shoot Blight caused by Botryosphaeria dothidea – Apply 16 gallons of Lime-Sulfur Solution Agricultural Fungicide (48 lbs of Calcium Polysulfide) per acre in sufficient water for coverage.

Use Restriction for Pistachios:

- **DO NOT** apply more than 16 gallons of Lime-Sulfur Solution (48 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 25 gallons of Lime-Sulfur Solution Agricultural Fungicide product (75 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 14 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days

PLUMS: DORMANT for Leaf Curl – Apply 10 to 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (30-36 lbs of Calcium Polysulfide).

GREEN TIP for Black Knot – Apply 6¼ gallons of Lime-Sulfur Solution Agricultural Fungicide (18.75 lbs of Calcium Polysulfide).

DORMANT OR DELAYED DORMANT for Scale Insects, Silver Mites, Peach Twig Borers, Coryneum Blight, Peach Leaf Curl, Aphids – Apply 6 to 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-33 lbs of Calcium Polysulfide) per 100 gallons spray or 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) with 1½ gallons of superior type oil per 100 gallons spray for additional control of Brown Mites and Red Mites.

LATE SEASON for Blotch, Powdery Mildew – Use 2 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide), apply weekly beginning 3 to 5 weeks before harvest. For Brown Rot (Fruit Rot) – Apply 3 quarts of Lime-Sulfur Solution Agricultural Fungicide (2.25 lbs of Calcium Polysulfide) at 20, 10, and 2 days before harvest.

Use Restriction for Plums:

- **DO NOT** apply more than 12 gallons of Lime-Sulfur Solution (36 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 50 gallons of Lime-Sulfur Solution Agricultural Fungicide product (150 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 25 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.

- Pre-harvest Interval is 0 days

PRUNES: GREEN TIP STAGE for Black Knot – Apply 6¼ gallons of Lime-Sulfur Solution Agricultural Fungicide (18.75 lbs of Calcium Polysulfide).

DORMANT OR DELAYED DORMANT for Scale Insects, Silver Mites, Peach Twig Borers, Coryneum Blight, Peach Leaf Curl, Aphids – Apply 6 to 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (18-33 lbs of Calcium Polysulfide) per 100 gallons spray or 3 gallons of Lime-Sulfur Solution Agricultural Fungicide (9 lbs of Calcium Polysulfide) with 1½ of superior type oil for additional control of Brown Mites and Red Mites.

LATE SEASON for Brown Rot (Fruit Rot), Leaf Spot, Powdery Mildew – Apply 2 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide) in weekly applications beginning 3 to 5 weeks before harvest.

Use Restriction for Prunes:

- **DO NOT** apply more than 11 gallons of Lime-Sulfur Solution (33 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 50 gallons of Lime-Sulfur Solution Agricultural Fungicide product (150 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 25 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days

QUINCE: For Scab – Apply 1 gallon of Lime-Sulfur Solution Agricultural Fungicide (3 lbs of Calcium Polysulfide) at 10 day intervals during primary infection period.

Use Restrictions for Quince:

- **DO NOT** apply more than 1 gallon of Lime-Sulfur Solution (3 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 65 gallons of Lime-Sulfur Solution Agricultural Fungicide product (195 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 22 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days

RED CLOVER, ALFALFA: EARLY BUD STAGE or at first sign of disease for Powdery Mildew – Apply 1 gallon of Lime-Sulfur Solution Agricultural Fungicide (3 lbs of Calcium Polysulfide) per acre in 50 to 100 gallons of spray.

Use Restrictions for Red Clover and Alfalfa:

- **DO NOT** apply more than 1 gallon of Lime-Sulfur Solution (3 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 20 gallons of Lime-Sulfur Solution Agricultural Fungicide product (60 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 15 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days

MANGE (Sarcoptic Mites), **SCAB** (Psoroptic Mites, Chorioptic Mites): Dilute Lime-Sulfur Solution Agricultural Fungicide with warm water in the following proportions (gallons) and use as a dip or spray: Horses and Cattle, 1 to 15; Sheep, 1 to 20; Swine, 1 to 15 or 20 when hand treating small areas of mange, dilute 1 to 10. Maintain the mixture between 95°F and 105°F. Use the mixture only once and retreat animals at 12 day intervals if needed. Treatment may be repeated at 3 to 7 day intervals when treating swine.

ORNAMENTALS: DORMANT DISEASE CONTROL: Deciduous Hedge Plants, Ornamental Shrubbery, Shade Trees, and Berries: **FALL** for Stem Canker – Apply 11 gallons of Lime-Sulfur Solution Agricultural Fungicide (33 lbs of Calcium Polysulfide), repeat at Bud Swell.

DORMANT for Anthracnose, Black Spot, Powdery Mildew, Rust – Apply 12½ gallons of Lime-Sulfur Solution Agricultural Fungicide (37.5 lbs of Calcium Polysulfide).

DORMANT Clean-up spray on Roses – Apply 12½ gallons of Lime-Sulfur Solution Agricultural Fungicide (37.5 lbs of Calcium Polysulfide) in 100 gallons of water or 3 pints of Lime-Sulfur Solution Agricultural Fungicide (2.25 lbs of Calcium Polysulfide) in 3 gallons of water, as winter buds swell – Before opening (December or January).

If roses are not sprayed before buds swell – Apply 8 1/3 gallons of Lime-Sulfur Solution Agricultural Fungicide (25 lbs of Calcium Polysulfide) in 100 gallons water or 1 quart of Lime-Sulfur Solution Agricultural Fungicide (0.75 lbs of Calcium Polysulfide) in 3 gallons water (February).

SPRING DORMANT on boxwood for Canker – Apply 2 gallons of Lime-Sulfur Solution Agricultural Fungicide (6 lbs of Calcium Polysulfide) after leaves are cleaned up.

AS LEAVES BEGIN TO EMERGE for Anthracnose, Black Spot, Brown Canker – Apply 6 $\frac{3}{4}$ gallons of Lime-Sulfur Solution Agricultural Fungicide (20.25 lbs of Calcium Polysulfide). (See Boxwood under Foliar Sprays)

DORMANT: HARD OR ARMORED SCALE CONTROL AND WINTER CLEAN UP of Overwintering Spores of diseases listed for each crop in other sections of this label: Scales, including Scurfy Scale, San Jose Scale, Euonymus Scale, Pine Needle Scale, Juniper Scale on deciduous Fruit Trees, Ornamental shrubberies, Berries and most Ornamental Trees including Lilac, Ash, Poplar, Dogwood, Elm, Birch, Willow – Apply 10 to 12 gallons of Lime-Sulfur Solution Agricultural Fungicide (30-36 lbs of Calcium Polysulfide) when fully dormant.

For Evergreen Euonymus, Pines, Junipers and other tolerant evergreens – Use 4 to 6 gallons of Lime-Sulfur Solution Agricultural Fungicide (12-18 lbs of Calcium Polysulfide).

FOLIAR SPRAYS: Ornamentals including Begonias (Tuberous), Crape Myrtle, Dahlias, Delphiniums, Euonymus, Lilacs, Marigolds, Sweet Peas, Zinnias for Powdery Mildew – Apply 1 to 2 quarts of Lime-Sulfur Solution Agricultural Fungicide (0.75-1.5 lbs of Calcium Polysulfide) when foliage appears and repeat at 7 to 10 day intervals as needed. Boxwood Canker – Apply 2 quarts of Lime-Sulfur Solution Agricultural Fungicide (1.5 lbs of Calcium Polysulfide) at Spring mid-growth, completed growth and fall growth. Follow with a dormant application shown in Dormant Disease Control section.

PLANT TOLERANCE: For specific plants not mentioned above a preliminary trial spray to determine plant tolerance is advised.

Use Restrictions for Ornamentals:

- **DO NOT** apply more than 12 $\frac{1}{2}$ gallons of Lime-Sulfur Solution (37.5 lbs of Calcium Polysulfide) per acre per application.
- **DO NOT** apply more than 33 gallons of Lime-Sulfur Solution Agricultural Fungicide product (99 lbs. Calcium Polysulfide) per acre per year. On other ornamentals, **DO NOT** apply more than 40 gallons of Lime-Sulfur Solution Agricultural Fungicide product (120 lbs. Calcium Polysulfide) per acre per year.
- **DO NOT** make more than 16 applications per year when applied at reduced use rates.
- Minimum Retreatment Interval is 7 days.
- Pre-harvest Interval is 0 days

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Keep pesticide in original container. Store product in a secure locked place, inaccessible to children, pets and livestock. **DO NOT** put concentrate or dilute into food or drink containers. Keep container in the shade. For help with any spill, leak, fire, or exposure involving this material call day or night CHEMTREC (800) 424-9300.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Nonrefillable Container (five gallons or less): Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. 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 1/4 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, if available, or puncture and dispose of container 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 five gallons): Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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, if available, or puncture and dispose of container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refillable container. Refill this container with Calcium Polysulfide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment

or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

WARRANTY AND LIMITATION OF DAMAGES

Tessenderlo Kerley, Inc. warrants only that this product conforms to the product description on the label. Except as warranted by this label, Tessenderlo Kerley, Inc. makes no representation or warranty or guarantee, whether expressed or implied, of fitness for a particular purpose of merchantability, or of product performance. Tessenderlo Kerley, Inc. does not authorize any agent or representative to make any such representation, warranty or guarantee. To the extent consistent with applicable law, Tessenderly Kerley, Inc's maximum liability for breach of its warranty or use of this product, regardless of the form of action, shall be limited to the purchase price of this product. To the extent consistent with applicable law, buyer and user acknowledge and assume all risks and disposal liability resulting from handling, storage, use and disposal of this product. If buyer does not agree with or accept these warranty and liability limitations, buyer may return the unopened container to the place of purchase for full refund. Buyer's use of this product shall constitute conclusive evidence of the buyer's acknowledgement and acceptance of the forgoing limitations. Some states do not allow the exclusion of implied warranties or the limitation of certain damages, so the above may not apply. The purchase, delivery, acceptance and use of this product by the buyer are subject to eh terms and conditions of the seller's sales invoice for this product.

WARRANTY AND LIMITATION OF DAMAGES FOR APPLE BLOSSOM THINNING

Tessenderlo Kerley, Inc. (TKI) advises the user to test this product before commercial use in order to determine its suitability for the intended purpose as crop injury may occur. Tessenderlo Kerley, Inc. warrants only that this product conforms to the product description on the label. Except as warranted by this label, Tessenderlo Kerley, Inc. makes no representation or warranty or guarantee, whether expressed or implied, of fitness for a particular purpose of merchantability, or of product performance. To the extent consistent with applicable law, buyer and user acknowledge and assume all risks.
[This statement has been added by TKI and is not required by the USEPA.]

[~~EPA Approval Date~~ EPA 20230724]