

18-NOV-2010  
2010-4715

GROUP	<b>M<sup>2</sup></b>	FUNGICIDE
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**FARM & RANCH BRAND  
LIME SULPHUR FUNGICIDE  
SOLUTION**

**LIME SULPHUR IS PRIMARILY USED AS A DORMANT SPRAY TO CLEAN UP  
OVERWINTERING INSECTS, MITES AND FUNGAL DISEASES ON FRUIT TREES  
AND SMALL FRUIT.**

COMMERCIAL

GUARANTEE: Calcium polysulphide 23%

REGISTRATION NO. 25356 PEST CONTROL PRODUCTS ACT

**DANGER - CORROSIVE TO EYES**

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 10 L

Agrium Advanced Technologies RP Inc.  
10 Craig Street  
Brantford, ON  
N3R 7J1  
519-757-0077

**DIRECTIONS FOR USE:** Lime Sulphur Fungicide is primarily used as a dormant spray to clean up over-wintering insects, mites and fungal diseases on fruit trees and small fruit. When used in combination with PRO® Superior Oil Insecticide, it is an excellent clean-up spray for dormant fruit trees. Spring and summer applications may cause leaf yellowing and defoliation, particularly if applied in the calyx or early summer without previous application in pink. Do not spray when foliage is wet. Spray to point of run-off and cover completely. Do not apply during or shortly before temperature reaches 27°C or higher.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) fine classification. Boom height must be 60 cm or less above the crop or ground.

Air blast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**DO NOT** apply by air.

### HOW TO USE THE CHART BELOW

1. Locate FRUIT and PEST to be controlled on left.
2. Select the quantity of DILUTED SPRAY that you wish to make.
3. Amount of LIME SULPHUR needed to mix that quantity of spray is shown in column opposite PEST to be controlled.

FRUIT	PESTS	WHEN TO SPRAY	Amount of LIME SULPHUR FUNGICIDE required to mix with enough water to make the desired quantity of diluted spray of:		
			20 L	100 L	200 L
Apples and Pears	Blister & Rust mites	Dormant	2 L	10 L	20 L
	San Jose and European scale	Dormant Season	1 L	5 L	10 L
	General clean up spray		of LIME SULPHUR PLUS 250 mL    PLUS 1.25 L    PLUS 2.5 L of Dormant Oil Spray		
	Apple and Pear scab, Powdery mildew	pre-pink, pink, calyx, 1st & 2nd cover spray	250 mL	1.25 L	2.5 L
PRUNES and	San Jose and European scale, Mite Aphid-eggs	Dormant Season	1 L	5 L	10 L

Plums	General clean-up		of LIME SULPHUR		
			PLUS 250 mL	PLUS 1.25 L	PLUS 2.5 L
Peaches	Peach leaf curl, San Jose and European scale	Dormant Season	2 L	10 L	20 L
	Twig borer	Pink	2 L	10 L	20 L
	Powdery mildew	Petal fall	250 mL	1.25 L	2.5 L
Repeat at two week intervals					
Cherries	San Jose and European scale, Mites	Dormant Season	1 L	5 L	10 L
	General clean-up		PLUS 250 mL	PLUS 1.25 L	PLUS 2.5 L
of Dormant Oil Spray					
Strawberries	Powdery mildew, Fruit rots	Spring (when growth starts)	300 mL	1.5 L	3 L
	Powdery mildew	3 wks. after harvest	300 mL	1.5 L	3 L
Raspberries	Scales, Spur blight, Cane blight, Rust	Delayed Dormant	700 mL	3.5 L	7 L
Blackberries	Redberry mite	Delayed Dormant	1-1.5 L	5-7.5 L	10-15L
		When fruit arms 7-15 cm	500-700mL	2.5-3.5 L	5-7 L
Loganberries	Leaf spot, Cane spot	Delayed Dormant	700 mL	3.5 L	7 L
Gooseberries	Powdery mildew	Before earliest blossoms open	300 mL	1.5 L	3 L
	Powdery mildew	Calyx	300 mL	1.5 L	3 L

**WARNING:** Lime Sulphur Fungicide may injure "sulphur shy" varieties. Do not use unless local experience has proven that sulphur is safe to use. Consult local agricultural authorities. Do not spray on painted surfaces, brick or stone as staining or discoloration may occur. KEEP FROM FREEZING.

**Buffer Zones:** Use of the following spray methods or equipments **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Buffer Zones (Metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
		Less than 1m	Greater than 1m	Less than 1m	Greater than 1m
Field Sprayer*	Strawberries Gooseberries	3	1	1	1

	Raspberries Loganberries		5	1	1	1
	Blackberries		10	1	3	1
Air blast	Raspberries Loganberries	Early growth stage	30	5	15	5
		Late growth stage	25	3	5	3
	Plums, Prunes Cherries	Early growth stage	35	10	20	10
		Late growth stage	25	4	10	4
	Blackberries	Early growth stage	40	15	25	15
		Late growth stage	30	5	15	5
	Apples Pears Peaches	Early growth stage	40	15	25	15
	Gooseberries	Early growth stage	25	2	5	2
		Late growth stage	15	1	3	1

\* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

**RESISTANCE MANAGEMENT RECOMMENDATIONS:** For resistance management, please note that Farm & Ranch Brand Lime Sulphur Fungicide contains a Group M2 fungicide. Any fungal population may contain individuals naturally resistant to Farm & Ranch Brand Lime Sulphur 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. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay fungicide/bactericide resistance:

- Where possible, rotate the use of Farm & Ranch Brand Lime Sulphur Fungicide or other Group M2 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide/bactericides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.

- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Agrium Advanced Technologies RP Inc. at 1-800-461-6471 or at [www.agriumat.com](http://www.agriumat.com).

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.** Corrosive to eyes and skin. Concentrate may cause eye damage and skin irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit Croplife Canada's web site at: [www.Croplife.ca](http://www.Croplife.ca)

All workers involved in handling lime sulphur products must wear personal protective equipment consisting of: coveralls over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear, protective eyewear, chemical-resistant headgear for overhead exposure. In addition, a chemical-resistant apron and NIOSH-approved respirator are required when cleaning equipment, mixing and loading.

Do not re-enter or allow the re-entry into treated areas until 48 hours after application.

**ENVIRONMENTAL HAZARDS: TOXIC** to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**.

**FIRST AID: If on skin or clothing**, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If in eyes**, hold eye 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 centre or doctor for treatment advice. **If swallowed**, call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person. **If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** May yield hydrogen sulphide by decomposition before or after ingestion. Treat symptomatically.

**DISPOSAL:**

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.

3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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