

2023-7086  
2024-05-31

group	<b>M02</b>	fungicide
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base

## LIME SULPHUR

INSECTICIDE MITICIDE FUNGICIDE

SOLUTION

COMMERCIAL

DANGER



POISON



CORROSIVE TO EYES AND SKIN

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. 16465  
PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Calcium polysulphide 30%

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING  
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273 NET  
CONTENTS: 10L, 20L, 205L, Bulk (1000-30000 L)

LOVELAND PRODUCTS CANADA INC.  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5  
1-800-328-4678

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11/10

group M02 fungicide

Front

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN.**

Corrosive to eyes and skin. Concentrate may cause eye damage and skin burns. Harmful or fatal if swallowed or absorbed through skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. 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.

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 website at: [www.croplife.ca](http://www.croplife.ca).

## **FIRST AID**

**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 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 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.

**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.

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.

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### **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

### **STORAGE**

Store this product away from food or feed.

### **DISPOSAL**

#### For recyclable containers

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

#### For returnable containers

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### For refillable containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

#### Disposal of unused, unwanted product

For information on 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.

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## **TOXICOLOGICAL INFORMATION**

May yield hydrogen sulphide by decomposition before or after ingestion. Treat Symptomatically.

## **ENVIRONMENTAL PRECAUTIONS**

**TOXIC** to aquatic organisms. Observe spray buffer zones specified under **DIRECTIONS FOR USE**.

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## **DIRECTIONS FOR USE**

Lime Sulphur solution for fungus and mite problems on fruit trees and small fruit: when used in combination with dormant oil spray it is an excellent clean up spray for dormant fruit trees. Do not spray when foliage is wet, spray to point of run-off: cover completely. Lime Sulphur may cause leaf yellowing and defoliation; particularly if applied in the calyx or early summer without previous application in the pink stage.

## **TANK MIXTURES**

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

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In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Loveland Products Canada Inc. at 1-800-328-4678 for information before applying any tank mix that is not specifically recommended on this label.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.



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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 S572.1) 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/hr at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

**SPRAY BUFFER ZONES**

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

The spray 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		Spray 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		3	1	1	1
	Gooseberries					
	Raspberries		5	1	1	1
	Loganberries					
	Bushberries (Crop Subgroup 13-07B)					
	Blackberries		10	1	3	1
	White cedar		20	2	5	2
Air blast	Raspberries	Early Growth stage	30	5	15	5
	Loganberries	Late Growth Stage	25	3	5	3
	Plums, Prunes, Cherries	Early Growth stage	35	10	20	10
		Late Growth Stage	25	4	10	4
	Bushberries (Crop Subgroup 13-07B)					
	Blackberries	Early Growth stage	40	15	25	15
		Late Growth Stage	30	5	15	5
	Apples, Pears, Peaches, Grapes	Early Growth stage	40	15	25	15
	Gooseberries	Early Growth stage	25	2	5	2
		Late Growth Stage	15	1	3	1
	White Cedar	Early Growth stage	45	20	30	20
		Late Growth Stage	35	10	20	10

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

**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	PEST	WHEN TO SPRAY	Amount of LIME SULPHUR required to mix with enough water to make the desired quantity of diluted spray of:		
			20 L	100 L	200 L
<b>APPLES and PEARS</b>	Blister mites, Rust mites	Dormant	1.47 L	7.3 L	14.7 L
	San Jose scale, European scale	Dormant Season	733 mL PLUS 250 mL of Dormant Oil Spray	3.7 L PLUS 1.25 L of Dormant Oil Spray	7.3 L PLUS 2.5 L of Dormant Oil Spray
	General clean up spray				
	Apple scab, Pear scab, Powdery mildew	Pre-pink, Pink calyx, 1 <sup>st</sup> & 2 <sup>nd</sup> cover spray	183 mL	916 mL	1.8 L
<b>PRUNES and PLUMS</b>	San Jose scale, European scale, Mites, Aphidsegs, General clean-up	Dormant Season	733 mL PLUS 250 mL of Dormant Oil Spray	3.67 L PLUS 1.25 L of Dormant Oil Spray	7.3 L PLUS 2.5 L of Dormant Oil Spray
<b>PEACHES</b>	Peach leaf curl, San Jose scale, European scale	Dormant Season	1.47 L	7.3 L	14.7 L
	Twig Borer	Pink	1.47 L	7.3 L	14.7 L
	Powdery Mildew	Petal Fall	183 mL	916 mL Repeat at two week intervals	1.8 L

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<b>CHERRIES</b>	San Jose scale, European scale, Mites, General clean-up	Dormant Season	730 mL PLUS 250 mL of Dormant Oil Spray	3.67 L PLUS 1.25 L of Dormant Oil Spray	7.3 L PLUS 2.5 L of Dormant Oil Spray
<b>STRAW-BERRIES</b>	Powdery Mildew, Fruit Rots	Spring (when growth starts)	220 mL	1.1 L	2.2 L
	Powdery Mildew	3 weeks after harvest	220 mL	1.1 L	2.2 L
<b>RASP-BERRIES</b>	Scales, Spur blight, Cane blight, Rust	Delayed Dormant	513 mL	2.6 L	5.1 L
<b>BLACK-BERRIES</b>	Redberry mite	Delayed Dormant	730 mL - 1.10 L	3.7-5.5 L	7.3-11 L
		When fruit arms are 7-15 cm	367-513 mL	1.8-2.6 L	3.7-5.1 L
<b>LOGAN-BERRIES</b>	Leaf spot, Cane spot	Delayed Dormant	513 mL	2.6 L	5.1 L
<b>GOOSE-BERRIES</b>	Powdery Mildew	Before earliest blossoms open	220 mL	1.1 L	2.2 L
	Powdery Mildew	Calyx	220 mL	1.1 L	2.2 L

**GRAPES**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Loveland Products Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Loveland Products Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

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For use on grapes for powdery mildew management.

Use 7.3 L of LIME SULPHUR Insecticide Miticide Fungicide to make 100 L of spray mixture.

Apply once per year during dormant stage prior to bud swell (early March to early April).

Spray to point of runoff, cover completely.

Do NOT apply within 120 days of harvest.

Apply with ground equipment.

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**CROP SUBGROUP 13-07B – BUSHBERRIES:** Aronia berry, Blueberry (highbush and lowbush), Buffalo current, Chilean guava, Currant (black and red), Elderberry, European barberry, Gooseberry, Highbush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Native currant, Salal, Sea buckthorn, and Cultivars, varieties and/or hybrids of these.

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For use on bushberries for the control of scale insects (such as lecanium scale), and for general clean-up.

Apply 36.7 L of LIME SULPHUR Insecticide Miticide Fungicide PLUS 12.5 L Dormant Oil Spray in 1000 L of spray.

OR

Apply 18.3 L of LIME SULPHUR Insecticide Miticide Fungicide PLUS 6.25 L Dormant Oil Spray in 500 L of spray.

OR

Apply 3.7 L of LIME SULPHUR Insecticide Miticide Fungicide PLUS 1.25 L Dormant Oil Spray in 100 L of spray.

Apply once per year when the plants are dormant (January- March). Spray to point of run-off, cover completely.

Apply with ground equipment only.

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## WHITE CEDAR

The DIRECTIONS FOR USE for the uses described in this section of the label were

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For use on White Cedar for reduction in cone production.

Use 13.4 L of LIME SULPHUR Insecticide Miticide Fungicide to make 100 L of foliar spray mixture.

Use a maximum of 1000L/ha.

Apply enough solution to have a good coverage until runoff point.

Apply early at the bloom period.

A second application could be necessary at the end of the blooming period (7-10 days later).

Maximum of 2 applications per year. Minimum of 7 days between applications.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that LIME SULPHUR Insecticide Miticide Fungicide contains a Group M02 fungicide. Any fungal population may contain individuals naturally resistant to LIME SULPHUR Insecticide Miticide Fungicide and other Group M02 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 resistance:

1. Where possible, rotate the use of LIME SULPHUR Insecticide Miticide Fungicide or other Group M02 fungicides with different groups that control the same pathogens.
2. Use tank mixtures with fungicides from a different group when such use is permitted.
3. 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.
4. Monitor treated fungal populations for resistance development.
5. 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.
6. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
7. For further information and to report suspected resistance, contact Technical Service at 1-800-265-4624 or at [www.uap.ca](http://www.uap.ca).

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**WARNING**

LIME SULPHUR Insecticide Miticide Fungicide may injure “sulphur shy” varieties. Do not use unless local experience has proved that Sulphur is safe to use. Consult local Agricultural Authorities. Do not spray on painted surfaces as staining or discoloration may occur.