

2017-7310

# **SUPERIOR 70 OIL**

INSECTICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL



**DANGER POISON**  
**EYE IRRITANT**

READ THE LABEL BEFORE USING

GUARANTEE: Mineral Oil: 99% Min.

REGISTRATION NO. 14981  
PEST CONTROL PRODUCTS ACT

In case of emergency due to a major spill, fire or poisoning involving this product call day or night, 1-800-561-8273.

LOVELAND PRODUCTS CANADA INC.  
PO Box 5234 | 64137 Hwy 543 E  
High River, AB T1V 1M4  
1-800-328-4678

NET CONTENTS: 5 L to 18 000 L

## **DIRECTIONS FOR USE**

SUPERIOR 70 OIL is an emulsifiable mineral oil for the control of certain insect and mite pests attacking apples, apricots, pears, peaches, plums, rutabagas, sour cherries and ornamentals. It should be applied as recommended in provincial spray calendars using any conventional spraying equipment. Apply for thorough coverage.

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.

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.

Airblast 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.

**NOTE:** Do not apply just before or during freezing weather. Thorough coverage is essential. Apply on a mild day, but not in late afternoon or evening so that trees will dry quickly. Do not spray if frost is expected before the trees dry.

## **FRUIT TREES**

Rates on fruit trees are expressed in terms of both amount of SUPERIOR 70 OIL per hectare and amount of SUPERIOR 70 OIL per 1000 litres of water. The amount per 1000 L rate refers to dilute spray applications.

<b>Crop and Insect</b>	<b>Amt. To Use / Hectare</b>	<b>Amt. To Use / 1000 Litres</b>	<b>Timing</b>
APPLE European fruit scale European red mite Lecanium scale Oyster shell scale Red-banded leaf roller San Jose scale	60 L	20 L	Apply once at green tip to 1 cm green stage. NOTE: DO NOT USE SUPERIOR 70 OIL on Red Delicious or Empire apples. In Ontario, some bark injury has occurred on Red Delicious when the trees were low of vigour. Little or no injury occurs on most other varieties of apple trees.
APRICOTS European Red Mite	60 L	20 L	Dormant to prebloom.
PEAR European fruit scale European red mite Lecanium scale Oyster shell scale Pear psylla San Jose scale	60 L	20 L	Apply at true dormant stage for pear psylla and scales and at green-tip for Mites.
PEACH Cottony peach scale European red mite San Jose scale	60 L	20 L	Dormant to prebloom. For mites apply between 1 cm green and first pink. Use one application only per season on peach.
PLUM European red mite Lecanium Scale San Jose Scale	60 L	20 L	Green tip. Apply when leaf buds are just breaking.
SOUR CHERRY European red mite	60 L	20 L	Pre-bloom. Apply when leaf buds are just breaking.
HIGHBUSH BLUEBERRIES Lecanium scale	20-30 L	20 L	One application per year; ground application only; apply as dormant spray in late winter; 1000L/ha for small bushes -1500L/ha for large bushes.

## ORNAMENTALS

Use 20 L of SUPERIOR 70 OIL per 1000 L of water. Apply as a dormant spray in early spring when most danger of freezing nights is over, BUT BEFORE LEAFBUDS SWELL OR BREAK. Spray on a mild morning so that the trees will dry quickly after spraying. Never spray in the late afternoon or during freezing weather.

CAUTION: To prevent injury DO NOT apply on:

Arbovitae	Hickory	Sugar maple
Beech	Douglas fir	Holly
Walnut	Butternut	Japanese maple
White Pine	Cocos palms	Juniper
Yew	Colorado Blue Spruce	Maidenhair ferns

DO NOT apply to shrubs and trees other than the ones listed on this label.

HOST PLANT	PESTS
APPLE (Malus) Crabapple Barberry Hawthorne	Oyster shell scale, San Jose scale, European red mite
ASH (Fraxinus)	Oystershell scale
ELM (Ulmus)	European fruit scale, Lecanium scale, European red mite
PRUNUS Flowering Cherry, Peach & Plum	European red mite, Lecanium scale, San Jose scale
HONEYLOCUST (Gleditsia)	Cottony maple scale
LILAC (Syringa)	Oystershell scale
MAPLE (Acer) (except Japanese and sugar)	Cottony maple scale, Lecanium scale
MOUNTAIN ASH (Sorbus)	European red mite,
OAK (Quercus)	European fruit scale, Lecanium scale, Golden oak scale, Kermes oak scale
PACHYSANDRA (Pachysandra)	Euonymus scale
PINE (Pinus) (except White Pine)	Pine needle scale, Spruce spider mite
SPRUCE (picea) (except Colorado Blue)	Pine needle scale, Spruce spider mite
TULIPTREE (Liriodendron)	Tuliptree scale
WILLOW (Salix)	Oystershell scale

## RUTABAGAS

SUPERIOR 70 OIL can be used on rutabagas to deter the feeding of aphids, which spread Turnip Mosaic Virus. Apply 11 L/ha of SUPERIOR 70 OIL in 550-1100 L/ha of water. Thorough coverage is essential. Application should be made at 2500 kPa with hollow cone nozzles. Spray at one week intervals beginning in mid-June or at the first appearance of aphids. Consult your local extension office for more precise information about aphid activity and spray timing. Application

may be required for up to 10 weeks of aphid activity. DO NOT apply closer than 21 days to harvest.

**CAUTION:** Do not apply SUPERIOR 70 OIL in direct sunlight. Spray rutabagas early in the morning or in the evening. Allow at least 24 hours to elapse after the SUPERIOR OIL 70 application before applying other insecticide sprays. Do not apply SUPERIOR 70 OIL in more concentrated solutions than recommended as crop injury may occur.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than Loveland Products Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Loveland Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop listed below.

*Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Loveland Products Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described below.*

**POTATOES**

For foliar application only, using conventional ground application equipment. SUPERIOR 70 OIL can be used on potatoes to reduce the spread of Potato Virus Y (PVY) vectored by aphids. Thorough coverage is essential. Apply at a concentration of 1% (10 L of product/1000L of water) in an application volume of 1000 L water per ha at 690- 1380 kPa (100-200 PSI). Spray at one week intervals as soon as aphid vectors are present. Consult your local extension office for more precise information about aphid activity and spray timing. Application may be required for up to 10 weeks of aphid activity.

Crop	Pest	Rate per Ha	Maximum No. of Applications	Days Before Harvest
Potato	Reduce the spread of PVY	10L/ha	10	14

**MIXING**

SUPERIOR 70 OIL may be used alone with water or tank mixed with other chemicals such as, FERBAM and.

Do NOT mix with Captan, , Sevin or Wettable Sulphur.

When mixing oil combination sprays, add the chemical to the tank first, when the tank is one-quarter to one-half full of water. Mix thoroughly and add SUPERIOR

70 OIL last, when tank is almost full. Maintain tank agitation until contents are expended. For further instructions regarding mixing, compatibility, method of application, consult your local Fruit Extension Office or Provincial Fruit Production Recommendations.

**CAUTION**

Do not use the spray mixture before the oil has been properly emulsified or if the emulsion "breaks". Do not apply just before or during freezing weather. Keep the agitator running until the spray tank is empty. Do not use within 30 days before or after using Sulphur.

**BUFFER ZONES**

Use of the following spray methods or equipment DO NOT require a buffer zone: handheld or backpack sprayer and spot treatment.

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.

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 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer*	Highbush blueberries, and rutabaga	2	1	1	1
Airblast	Ornamental plants, shade trees and shrubs	5	3	1	0
	Pome fruit and stone fruit	20	10	3	1
Field Sprayer*	Potato	2	1	1	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 labeled 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 labeled buffer zone can be reduced by 30%.

## **PRECAUTIONS**

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

May irritate eyes. Harmful if inhaled. Keep product away from fire, open flame, lighted electric bulbs and other sources of heat. Do not breathe spray mist. Do not contaminate food or feed. Avoid contact with skin and eyes.

Wear a long-sleeved shirt, long pants, and shoes and socks during mixing, loading, application, clean-up and repair.

Do not enter or allow others to enter treated areas during the restricted-entry interval (REI) of 12 hours.

## **ENVIRONMENTAL HAZARDS**

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

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soils or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

For terrestrial uses: Do not apply directly to water, or 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.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

## **USE WITH CAUTION - DO NOT TAKE INTERNALLY**

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 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. Do not induce vomiting unless told to do so by poison control

centre or doctor. Do not give **any** liquid to the person. 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, preferable by mouth-to-mouth, if possible. 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:** This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

### **STORAGE**

Do not store at temperature below 0°C. If accidentally stored at freezing temperatures, move containers to heated storage (at least 10°C) and after the product is thoroughly warm, agitate the oil before use by means of rolling the drum and turning it upside down several times.

### **DISPOSAL**

1. Triple or pressure-rinse the empty. 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.