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BARTLETT  
Superior "70" Oil  
EMULSIFIABLE INSECTICIDE

NET CONTENTS 200 L

AGRICULTURAL

GUARANTEE: Mineral Oil.....99%

REGISTRATION NO. 9542 PEST CONTROL PRODUCTS ACT

**DANGER**



**POISON**

**EYE IRRITANT**

**READ THE LABEL BEFORE USING**

N.M. BARTLETT INC.

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**DIRECTIONS FOR USE:** SUPERIOR "70" OIL Emulsifiable Insecticide is an emulsifiable horticultural spray oil which controls listed insect and mite pests attacking apples, pears, peaches, nectarines, apricots, plums, blueberries sour cherries, prunes and ornamentals and reduces the spread of viruses in potatoes and rutabagas.

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.

**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 product involved in the tank mixture.

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.

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 applications	Crop	Buffer zones (metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Estuaries/Marine Habitats of Depth	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field Sprayer*	Potato, Highbush blueberries, rutabaga	2	1	1	1
Airblast	Prunes, Saskatoon berries	4	2	1	0
	Ornamental Plants, shade trees and shrubs	5	3	1	0
	Pome fruit and stone fruit	20	10	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%

FOR EFFECTIVE CONTROL THOROUGH COVERAGE IS ESSENTIAL. AVOID OVERSPRAYING.

It should be applied using any conventional ground spray equipment as recommended in the provincial spray calendars. DO NOT APPLY BY AIR.

**Note:** Do not apply just prior to or during freezing temperatures or rain.

CROP	INSECT OR MITE SPECIES	AMT TO USE/1000 LITERS OF WATER	TIME OF APPLICATION
APPLES	European Fruit Scale Lecanium Scale European Red Mite San Jose Scale Oyster Shell Scale	20 L	Dormant to green tip up to 1 cm green
Warning: May cause bark damage on Red Delicious Apple, Empire and Mutsu.			
PEACHES, NECTARINES	Cottony Peach Scale San Jose Scale European Red Mite	20 L	Dormant Pre-bloom
Note: Only one application per season.			
PEARS	European Fruit Scale European Red Mite Lecanium Scale Pear Psylla San Jose Scale Oyster Shell Scale	20 L	Dormant to green tip
PLUMS	European Red Mite San Jose Scale Lecanium Scale	20 L	Green tip Delayed Dormant
SOUR CHERRY	European Red Mite	20 L	Pre-Bloom
APRICOTS	European Red Mite	20 L	Dormant to pre-bloom
HIGHBUSH BLUEBERRIES	Lecanium Scale	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
RUTABAGAS	Deter feeding of Aphids which spread Turnip Mosaic Virus	10L	See note for Rutabagas
PRUNES	Lecanium Scale Oyster Shell Scale	20 L	Dormant or delayed dormant application.

**USE PRECAUTIONS:** Do not apply to apple after the green tips are 1 cm long or to pears after green-tip stage.

#### ORNAMENTALS

Apply as a dormant spray in early spring when most danger of freezing nights is over, BUT PRIOR TO LEAFBUD 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	Cocos palms	Japanese maple	Walnut
Beech	Douglas fir	Juniper	White Pine
Butternut	Hickory	Maidenhair ferns	Yew
Colorado Blue Spruce	Holly	Sugar maple	

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

ORNAMENTAL PLANTS, SHADE TREES AND SHRUBS*	INSECT OR MITE SPECIES	AMT TO USE/1000 LITERS OF WATER	TIME OF APPLICATION
Apple (Malus) Crabapple Barberry Hawthorne	Oyster Shell Scale San Jose Scale European Red Mite	20 L	Dormant
ASH (Fraxinus)	Oyster Shell Scale	20 L	Dormant
ELM (Ulmus)	European Fruit Scale Lecanium Scale European Red Mite	20 L	Dormant
PRUNUS Flowering Cherry Peach & Plum	European Red Mite Lecanium Scale San Jose Scale	20 L	Dormant
HONEYLOCUST (Gleditsia)	Cottony Maple Scale	20 L	Dormant
LILAC (Syringa)	Oyster Shell Scale	20 L	Dormant
MAPLE (Acer) (except Japanese and sugar)	Cottony Maple Scale Lecanium Scale	20 L	Dormant
MOUNTAIN ASH (Sorbus)	European Red Mite	20 L	Dormant

OAK (Quercus)	European Fruit Scale Lecanium Scale Golden Oak Scale Kermes Oak Scale	20 L	Dormant
PACHYSANDRA (Pachysandra)	Euonymus Scale	20 L	Dormant
PINE (Pinus) (except White Pine)	Pine Needle Scale Spruce Spider Mite	20 L	Dormant
SPRUCE (picea) (except Colorado Blue)	Pine Needle Scale Spruce Spider Mite	20 L	Dormant
TULIPTREE (Liriodendron)	Tuliptree Scale	20 L	Dormant
WILLOW (Salix)	Oyster Shell Scale	20 L	Dormant
Birch, Dogwood, Hawthorn, Holly, Privet, Sycamore	Scales (immature)	10-30 L	Dormant
	Spider Mites	10-30 L	Dormant

**SUMMER SPRAY:**

CROP	INSECT OR MITE SPECIES	AMT. TO USE/1000 LITERS OF WATER	TIME OF APPLICATION
Ornamental Shade Trees, Evergreens, and Hardy Shrubs	Scale Insects, red spider mites, mealybugs, and whitefly larvae.	20 L	Summer sprays. Apply when monitoring indicates applications are required. Consult recommendations of provincial spray calendar.

**CAUTIONS:** Summer spray applications of mineral oil may cause plant injury, foliar damage, or permanent discolouration of foliage to some varieties of plants. Follow all **CAUTIONS** and **USE PRECAUTIONS** on this label. To minimize the risk of plant injury and foliar damage, test product by applying to a small area of the plant to be treated, and observe for 24 hours for injury or damage.

**NOTE:** The precise timing of treatment must be determined to suit local growth and climatic conditions. Contact provincial agricultural authorities for further information.

**USE PRECAUTIONS:** All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. **DO NOT APPLY DURING PERIODS OF DROUGHT, WHEN PLANTS EXHIBIT MOISTURE STRESS AND JUST PRIOR TO OR DURING FREEZING WEATHER.** Do not use in combination with dinitro compounds, fungicides such as Captan, Folpet, Karathane, Morestand, or any other product containing sulphur.

**NOTE FOR RUTABAGAS:** SUPERIOR "70" OIL Emulsifiable Insecticide can be used on rutabagas to deter the feeding of aphids, which spread Turnip Mosaic Virus. Apply 10 L of SUPERIOR "70" OIL Emulsifiable Insecticide in 550-1100 L of water per hectare. 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 in the local area. 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 Emulsifiable Insecticide in direct sunlight. Spray rutabagas early in the morning or in the evening. Allow at least 24 hours to elapse after the SUPERIOR "70" OIL Emulsifiable Insecticide application before applying other insecticide sprays. Do not apply SUPERIOR "70" OIL Emulsifiable Insecticide in more concentrate solutions than recommended as crop injury may occur.

**COMPATIBILITY:** SUPERIOR "70" OIL Emulsifiable Insecticide is physically compatible with products such as Ferbam, Benlate and Polyram. Do not mix with Captan, Maestro, Parathion, Sevin or Wettable Sulphur.

**MIXING:** Before mixing, be certain the tank is clean. To mix add water to agitator level, start agitation and add the required amount of SUPERIOR "70" OIL Emulsifiable Insecticide. The mixture should turn white indicating good emulsification. After mixing, continue filling tank and do not stop agitation until tank has been emptied. Do not mix with Captan, Parathion, 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 the SUPERIOR "70" OIL Emulsifiable Insecticide when the tank is almost full. 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 use this material if it does not emulsify. Do not use within 30 days before or after using Sulphur.

**SUPPLEMENTAL LABEL FOR CONTROL OF FRUIT TREE LEAF ROLLER AND  
SASKATOON BUD MOTH ON SASKATOON BERRIES**

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:** THE DIRECTIONS FOR USE for this product for the use described on the Supplementary Label were developed by persons other than N.M. BARTLETT INC. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. N.M. BARTLETT 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 on this Supplementary Label. Accordingly, the User assumes all liability arising, and agree to hold N.M. BARTLETT INC. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described on this Supplementary Label.

**DIRECTIONS FOR USE:**

<b><u>CROP</u></b>	<b><u>DISEASE</u></b>	<b><u>METHOD/RATE</u></b>
SASKATOON BERRIES	Saskatoon bud moth Fruit tree leaf roller	Apply 20 L Product/1000 L water. One application per year; apply in the spring at bud break; apply to bushes until all surfaces are thoroughly coated; do not spray during freezing weather or if frost is expected before the plants dry; ground application.

**SUPPLEMENTAL LABEL TO REDUCE THE SPREAD OF POTATO VIRUS Y (PVY) VECTORED BY APHIDS IN POTATOES**

**NOTE TO BUYER/USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:** THE DIRECTIONS FOR USE for this product for the use described below were developed by persons other than N.M. BARTLETT INC. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. N.M. BARTLETT 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 liability arising, and agree to hold N.M. BARTLETT INC. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

For foliar application only, using conventional ground application equipment, Superior "70" Oil Emulsifiable Insecticide can be used on potatoes to reduce the spread of Potato Virus Y (PVY). Thorough coverage is essential. Apply at a concentration of 1% (10L of product/1000L of water) in an application volume of 1000L water per ha at a 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.	10 L	10	14

**CAUTION:** Spray applications of Superior "70" Oil Emulsifiable Insecticide may cause plant injury when applied in direct sunlight or when the application is followed by hot, sunny weather. To reduce risk of crop injury, avoid applications of Superior "70" Oil Emulsifiable Insecticide if unfavourable conditions are forecast. Spray potatoes early in the morning or in the evening. Allow at least 24 hours to elapse after the Superior "70" Oil Emulsifiable Insecticide application before applying other insecticide sprays. Do not apply Superior "70" Oil Emulsifiable Insecticide in more concentrated solutions than recommended as crop injury may occur.

**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.

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. MAY IRRITATE EYES. HARMFUL IF INHALED.**

Store in a cool, dry, well ventilated area, away from heat and ignition sources.

Avoid excessive heat, formation of oil mist, breathing of vapours and mist of hot oil and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated. After handling wash thoroughly with soap and water. 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.

If this 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)

**RESTRICTIONS AND LIMITATIONS: DO NOT APPLY BY AIR.**

**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 soil, 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.

**FIRST AID: IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. **IF IN THE 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 the 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 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. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia. The patient should be treated symptomatically.

**DISPOSAL:** Triple-rinse or pressure rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with municipal and provincial requirements. For information on the disposal of unused, unwanted product contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

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