

2014-5886
2015-01-28

**LANDSCAPE OIL
SPRAY EMULSIFIABLE INSECTICIDE**

For use against Spider Mites, Scale Insects, Mealybugs, Whiteflies, Western Flower Thrips
and other listed greenhouse ornamental, nursery and landscape pests.

COMMERCIAL

GUARANTEE: Mineral Oil 99%

REGISTRATION NO. 28124 PEST CONTROL PRODUCTS ACT

DANGER



POISON

EYE IRRITANT

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN
Net Contents: 1L-208L

Plant Products Inc.
50 Hazelton Street
Leamington, Ontario, Canada
N8H 3W1
Tel: 519-326-9037

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Do not take internally. Harmful if inhaled. Do not inhale spray mist. May irritate eyes. Avoid contact with skin, eyes and clothing. Wash hands after use. DO NOT APPLY BY AIR.

Wear a long-sleeved shirt, long pants, and shoes and socks during mixing, loading, application, clean-up and repair. Wear a NIOSH approved respirator during greenhouse foliar spray applications. Do not enter or allow others to enter treated areas during the restricted-entry interval (REI) of 12 hours.

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, WHEN TEMPERATURE IS EXCESSIVELY HIGH, OR JUST PRIOR TO OR DURING FREEZING WEATHER. Do not use LANDSCAPE OIL within 30 days before or after using sulphur. Do not use in combination with or closely following treatment with dinitro compounds, fungicides such as Captan, Folpet, Karathane, Morestan, or any other product containing sulphur.

FIRST AID INSTRUCTIONS:

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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 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.

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.

TOXICOLOGICAL INFORMATION: This product contains a petroleum distillate.

Treat symptomatically.

NOTE TO PHYSICIAN: Contains petroleum distillates - vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.

ENVIRONMENTAL HAZARDS:

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

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.

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.

DISPOSAL:

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

PLANT SENSITIVITY:

To prevent injury, DO NOT APPLY ON: ARBORVITAE, BEECH, BUTTERNUT, HICKORY, WALNUT OR WHITE PINE. PERMANENT DISCOLOURATION OF FOLIAGE WILL OCCUR TO BLUE VARIETIES OF JUNIPER AND SPRUCE. Japanese Maple, Japanese Holly, Sugar Maple and Silver Maple may be sensitive to oil sprays. Non-woody plants such as ferns may be damaged. Bark injury may occur on Red Delicious, Empire and Mutsu apples. Do not apply to apples or pears after greentip. Only 1 application per season for peaches. Do not apply to broadleaved evergreens or palms when freezing temperature may be expected within 3 weeks after application. Avoid spraying during or immediately prior to hot weather (over 30°C), hot dry winds or rain. Do not apply if frost is expected before spray dries.

The precise timing of treatment must be determined to suit local growth and climactic conditions. Contact provincial agricultural authorities or consult your Provincial Spray Calendar for complete details regarding the use of spray oils. **For effective control, thorough coverage is essential. Avoid overspraying.**

DIRECTIONS FOR USE:

Mixing instructions: Follow all use precautions. Partially fill tank with water and start agitation. Add LANDSCAPE OIL and then remaining water. Agitate continuously, if possible to keep Oil and water mixed. Spray to thoroughly wet all pests and plant surfaces. Do not overspray.

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.

Timing of application: LANDSCAPE OIL may be applied at different times depending upon the stage of the plant and the stage of the mite or insect. In general, Dormant applications are made any time before buds begin to swell or open. An Early Spring timing is still a Dormant application which is made closer to the time when buds will break. Delayed Dormant is when leaf tips are just emerging from buds. Summer applications are made once leaves are fully opened. Within these general times, provincial extension specialists may suggest more specific timing to coincide with the most vulnerable stage of the pest. Follow guidelines in

the table below carefully, since many plants may be vulnerable to damage if sprayed outside the recommended times. Unless specifically recommended, avoid spraying when leaves are emerging from buds and expanding.

ORNAMENTAL PLANTS, SHADE TREES AND SHRUBS	INSECT OR MITE SPECIES	LITRES OF PRODUCT PER 1000 LITRES OF WATER	TIME OF APPLICATION
ORNAMENTAL PLANTS, SHADE TREES AND SHRUBS (apple, ash, bittersweet, cherry, crabapple, elm, euonymus, hemlock, holly, juniper, lilac, linden, magnolia, maple, mountain ash, oak, pachysandra, peach, pine, plums, spruce, tuliptree, viburnum, willow)	Immature Scales (cottony maple scale, euonymus scale, European fruit scale, European elm scale, European red mite, Fletcher scale, golden oak scale, hemlock scale, holly scale, magnolia scale, oystershell scale, pine needle scale, pine tortoise scale, spruce bud scale, spruce spider mite, tuliptree scale)	Deciduous Species: 20-30 All Other Species: 10-15	Dormant
<i>SEE PLANT SENSITIVITY PRECAUTIONS</i>	Spider Mites	Deciduous Species: 20-30 All Other Species: 10-15	Dormant
Apple, Cherry, Crabapple, Elm, Mountain Ash, Plum, Peach	European Red Mite	20	Dormant to Green Tip (Green Tip to Delayed Dormant for apple, green tip for plum, Prebloom for cherry and peach, Dormant for Elm and Mountain Ash)
Hemlock container and field grown	Hemlock Woolly Adelgid (nymphs)	20	Dormant
PEAR	Pear Psylla	20	Late Dormant
	Pear Blister Mite	30	Dormant

SUMMER SPRAY:

CROP	INSECT OR MITE SPECIES	LITRES OF PRODUCT PER 1000 LITRES OF WATER	TIME OF APPLICATION
Ornamental Shade Trees, Evergreens, and Hardy Shrubs	Scale insects, red spider mites, mealybugs, and whitefly larvae	20	Summer sprays. Apply when monitoring indicates applications are required. Consult recommendations of provincial spray calendar.
Hemlock (Tsuga spp), container and field grown, Yeddo spruce (Picea jezoensis) and Tiger-tail-spruce (Picea polita)	Hemlock Woolly Adelgid -eggs and adults	20	Monitor for appropriate lifestage prior to applying product at correct rate. Eggs are laid in May or June, crawlers emerge in June or July. Apply up to once every 2 weeks if monitoring indicates a need. Do not exceed 4 consecutive sprays
	Hemlock Woolly Adelgid -early instar nymphs (crawlers)	10	
<p>CAUTION: 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.</p>			

GREENHOUSE ORNAMENTAL PLANTS	INSECT OR MITE SPECIES	VOLUME OF PRODUCT PER 1 LITRE OF WATER	TIME OF APPLICATION
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GREENHOUSE ORNAMENTAL PLANTS	INSECT OR MITE SPECIES	VOLUME OF PRODUCT PER 1 LITRE OF WATER	TIME OF APPLICATION
FOLIAR SPRAY SEE PLANT SENSITIVITY PRECAUTIONS BELOW	Western Flower Thrips (<i>Frankliniella occidentalis</i>), Whitefly (<i>Trialeurodes vaporariorum</i> , <i>Bemisia</i> spp.), Scale Insects (<i>Coccidae</i> , <i>Diaspididae</i>), Mealybugs (<i>Pseudococcidae</i>), Spider Mites (<i>Tetranychidae</i>)	20 mL	When monitoring indicates applications are required.
CUTTING/PLANT DIP SEE PLANT SENSITIVITY PRECAUTIONS BELOW	Western Flower Thrips (<i>Frankliniella occidentalis</i>) Whitefly (<i>Trialeurodes vaporariorum</i> , <i>Bemisia</i> spp.)	5 mL 2.5-5 mL	One application only, prior to planting. Cuttings should remain fully submerged for at least 1 minute.
<p>CAUTION: Non-dormant foliar spray or cutting/plant dip applications of mineral oil may cause plant injury, foliar damage, permanent discoloration of foliage, or death 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 or test on a small number of plants of each variety to be treated, and observe for 24 hours for injury or damage. When used as a cutting dip on poinsettia or other plants that are sensitive to applications of mineral oil, after removal from the Landscape Oil Spray Emulsifiable Insecticide the cuttings should be submerged in fresh water for at least 1 minute to remove excess oil. This will help minimize the risk of phytotoxicity but may also reduce efficacy against the target pests.</p> <p>DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.</p>			

BUFFER ZONES:

Use of 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.

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 wetland) and estuarine/marine habitat.

Method of applications	Crop	Buffer Zones (metres) required for the Protection of:			
		Freshwaters Habitat of Depths:		Estuaries/Marine Habitats of Depths:	
		Less than 1m	Greater than 1m	Less than 1m	Greater than 1m
Airblast	Ornamental plants, shade trees and shrubs, Hemlock	5	3	1	0
	Pome fruit and stone fruit	20	10	3	1

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.