

orion AGRISCIENCE

HARMFUL

KEEP OUT OF REACH OF CHILDREN

InvictusTM Oil

**HORTICULTURE –
INSECTICIDE / FUNGICIDE**

A spray oil for control of scale on AVOCADOS, KIWIFRUIT,
and scales, mites, aphids and thrips on CITRUS, PIPFRUIT
and STONEFRUIT, and powdery mildew on GRAPES

Active Ingredient:

800 g/litre mineral paraffinic oil in the form of an emulsifiable
concentrate. Minimum unsulphonated residue content 99%.



9 421029 981056

200 Litres

PLEASE READ THE LABEL COMPLETELY BEFORE USE

HAZARD CLASSIFICATIONS: 6.1E, 6.3B, 9.1D

WARNING: TOXIC, ECOTOXIC

May be harmful if swallowed, inhaled or absorbed through the skin. May cause mild eye irritation. Harmful to aquatic organisms.

PRECAUTIONS

STORAGE: Keep out of reach of children. Store in the original, tightly closed container, in a secure area. Storage of certain quantities of this product trigger specific storage requirements (Refer to Safety Note). When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of product that is older than this.

PERSONAL PROTECTION: Avoid contact with eyes and skin. Avoid inhalation of spray mist. Avoid contact with a strong oxidizing agent. When mixing or applying, wear overalls, chemical resistant boots and gloves, head covering, and eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

USE: Apply with well maintained and calibrated spray equipment.

DISPOSAL: Dispose of this product only by using in accordance with this label, or at a suitable landfill. Do not burn. Triple rinse container and add rinsate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose.

ENVIRONMENTAL: Use this product carefully. Do not contaminate aquatic environments with product, spray drift or empty container. Do not allow spray drift outside the target area to occur.

First Aid

If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre **0800 POISON (0800 764 766)** (24 hrs) or a doctor immediately for advice.

Emergency Response

In a transport emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).

Spillage

Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc., and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill.

Safety Data Sheet

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit **www.orionagriscience.co.nz**

Registered pursuant to the ACVM Act 1997, No. P9597
See www.foodsafety.govt.nz for registration conditions.
Approved pursuant to the HSN0 Act 1996, No. HSR000414
See www.epa.govt.nz for approval conditions.

TMINVICTUS is a Trade Mark of Orion Agriscience Ltd.

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orion
AGRISCIENCE

0721

Batch No.

Date of Manufacture



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GENERAL INFORMATION

Invictus Oil kills insects and mites through suffocation by smothering, and therefore relies on a physical mode of action. Invictus Oil is effective on all stages of insect development, including the egg stage.

WAITING PERIOD

Do **NOT** apply Invictus Oil within 7 days before or after the treatment with any other chemical product.

MIXING

Shake well before use. Add the required amount into the partly filled spray tank then add the rest of the water with agitation. Continue agitation while spraying. Do **NOT** leave standing for any length of time.

COMPATIBILITY

Invictus Oil is **NOT** compatible with a number of other products, including those containing the active ingredients captan, carbaryl, dithianon, dodine, folpet, lime sulphur, propargite, sulphur or Euparen Multi. Do **NOT** mix with other pesticides unless compatibility has been checked. Do **NOT** apply lime sulphur or sulphur within 21 days of an oil application.

WARRANTY

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.



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DIRECTIONS FOR USE

It is an offence to use this product on animals.

Invictus Oil should be applied as soon as 40-50% of the leaves show infestations of at least one mobile form. The rates suggested are for high volume spraying to run-off. Do **NOT** use in concentrated or low volume spraying. Spray all parts of the plant i.e. fruits, leaves, twigs and branches.

Do **NOT** spray under slow drying conditions, i.e., cool temperatures or high humidity

Do **NOT** spray if the ambient temperatures is above 32°C or if the relative humidity drops below 30%.

Do **NOT** spray early morning, late evening, or during darkness. These conditions can result in fruit damage.

Do **NOT** spray plants under stress, e.g., wet or dry conditions, disease.

Do **NOT** use any additional spray adjuvants.

Crop	Pest	Rate / 100 L	Critical comments
Avocados	Greenhouse Thrips, Scales	1L	Apply from late January – February. Apply 2 sprays, one month apart. If insect pressure is high, apply 3 sprays from January – April. Two sprays may be applied pre-flowering during September – October. Do NOT spray plants under stress.
	Six Spotted Mite	0.5 – 1 L	To suppress mite activity, apply two sprays two weeks apart when mite activity is first noticed.
Apples, Pears and Stonefruit	Aphids, European Red Mite, San Jose Scale	2L	Apply from green tip – cluster. Complete coverage is essential. If pest numbers are high, apply with a suitable insecticide. Do NOT use on russet sensitive varieties such as Cox's Orange Pipin later than early green tip or Gala between tight cluster and early fruit development. Monitor early varieties for bud swell at least 3 weeks before normal spray timing. In mixed blocks, time the oil spray according to the earliest variety
Citrus	Aphids, Citrus Red Mite, Scale Insects, Thrips	1L	Apply during spring and summer. Complete coverage is essential. If pest numbers are high, or mealy bug is present, apply with a suitable insecticide. Do NOT apply the 14 days after fruitset. Do NOT apply in hot dry weather when the trees are suffering moisture stress. Do NOT spray in temperatures over 32°C.

Crop	Pest	Rate / 100 L	Critical comments
Grapes	Powdery Mildew	2L	Apply as a high volume spray to run-off. Repeat on a 7–10 day schedule. Allow 10 – 14 days before or after a sulphur application. May reduce visible bloom on red varieties if used close to harvest. May delay harvest by up to one week.
Kiwifruit	Scale Insects (Greedy, Latania, Oleander)	1L	Spray application and timing should be determined by monitoring, and be in accordance with the crop protection programme for export kiwifruit. Use conventional airblast spray volumes of 2000 – 2200 L of water / ha. The use of concentrate spraying, or very high water volumes (> 2500L), is not recommended. Avoid spray overlap. Hayward – Do NOT apply during the period 14 – 35 days after fruit set. Do NOT apply in hot dry weather when the trees are suffering moisture stress. Do NOT spray in temperatures over 32°C. Zespri Gold – May be applied pre-flowering or only use within 21 days after fruit set.