

DANGER:

KEEP OUT OF REACH OF CHILDREN. PLEASE READ LABEL COMPLETELY BEFORE USE.

EXCEL[®] ORGANIC OIL



 INSECTICIDE

grochem[®]

Horticultural spraying oil for control of scale on kiwifruit, armoured scale, six spot and green house thrips on avocados, scale, aphids and mites on citrus, pip and stone fruits, powdery mildew on grapes.

Active Constituent: Contains 823.5g/litre mineral oil in the form of an emulsifiable concentrate. Minimum unsulphonated residue content 97.6%.

Registered pursuant to the ACVM Act 1997, No. P7845.
See www.foodsafety.govt.nz/acvm/ for registration conditions.

Approved Pursuant to the HSNO Act 1996, Number HSR000588.
See www.epa.govt.nz for approval controls.

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Batch No:

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May be fatal if swallowed and enters airways. May cause long lasting harmful effects to aquatic life. Avoid contamination of any water supply with product or empty container.

FIRST AID: If medical advice is needed, have product container or label at hand. IF SWALLOWED: Immediately call a POISON CENTRE/doctor. DO NOT induce vomiting. **24-hour Emergency Telephone Number – for advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately.** For specialist advice in an emergency only, call 0800 CHEMCALL (24hrs) or 0800 243 6225. In a transport emergency dial 111

STORAGE: Store in original container, tightly closed, away from stock feed or foodstuffs. Store appropriately. This product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

DISPOSAL

- Dispose of this product only by using according to the label, or at an approved landfill, or another approved facility. Avoid contamination of any water supply with product or empty container.
- Container disposal – Triple rinse the empty container and add residue to the spray tank. Recycle empty container with an approved recycling program, eg Agrecovery.

EQUIPMENT: Apply using accurately calibrated and maintained equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

SPILLAGE: Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste at an approved facility.

TRANSPORT: Do not carry on a passenger service vehicle.

SAFETY DATA SHEET: A Material Safety Data Sheet (MSDS) for Excel[®] Oil – Organic Spraying Oil is available from ADAMA New Zealand Ltd on request.

DIRECTIONS FOR USE

WARNINGS: Avoid inhalation of the spray mist. Wear protective clothing, rubber gloves and boots, also a face shield when mixing.
RESTRAINTS: DO NOT spray under conditions that give slow drying i.e. high humidity, cool temperatures. DO NOT spray early morning, late evening, or during the hours of darkness. These conditions may give rise to phytotoxic damage to the fruit. DO NOT spray plants under stress from wet or dry conditions, or disease. DO NOT use additional spray adjuvants with Excel[®] Oil - Organic Spraying Oil. The rates suggested are for high volume spraying to run-off.

It is an offence to use this product on animals. Withholding period: 1 Day
Leaf plucking in vineyards: Sheep must not be sent for slaughter or milked for 6 months after being removed from the vineyard (and placed on clean feed).

MIXING INSTRUCTIONS

- Prior to the first use of Excel[®] Oil - Organic Spraying Oil and any subsequent use gently roll the closed container, to thoroughly mix the product.
- Ensure the sprayer tank is clean. Excel[®] Oil - Organic Spraying Oil may not mix well if the tank is not clean. If the spray solution does not become milky, do not use.
- If applying with a Bacillus thuringiensis (Bt) product, add the Bt to the spraytank first.
- Maintain agitation when mixing Excel[®] Oil - Organic Spraying Oil in the spray tank and during the entire spraying operation.
- Flush spray solution held in delivery hoses back into the spray tank if the spraying operation is interrupted for more than 10 minutes.
- When using knapsack and other handheld or back-pack sprayers, thorough agitation is also required frequently whilst spraying.

• Oil products are not compatible with a number of other materials including Captain, Delan, Carbaryl, etc. Check for a number of sprayer stickers. Ensure compatibility of materials is checked with Suppliers before adding to a tank mix. No not apply Sulphur containing sprays within 21 days of an oil application.

CROP	RATE AND TIMING	ADDITIONAL INFORMATION
Cloves, Pears and Stonefruit: San Jose Scale, European Red Mites and Aphids	Green tip to tight cluster: 1.5-2 litres/100 litres of water. Summer application: 1 litre/100 litres of water.	May be applied with oil compatible insecticides to control high pest numbers. Do not apply to russet sensitive varieties such as Cox's Orange Pippin or Gala later than early green tip. Ensure crop is not under stress from drought or frost before application. Care should be taken to monitor advancement of green tip especially on early varieties. Complete coverage is essential.
Avocados: Armoured Scale, Greenhouse Thrips	1 litre/100 litres of water.	Determine pest pressure by monitoring or follow the high-pressure recommendations as a precaution. From late January to February apply two applications one month apart. If pest pressure is high, apply three sprays from Jan. to April. May be applied pre-flowering: one or two applications in September to October. Oil should not be applied to plants under stress.
Six-Spotted Mite:	0.5 – 1 litre / 100 litres of water.	To suppress six spotted mite, apply two sprays two weeks apart when six spotted mite is first noticed.
Citrus: Scale insects, Aphids, Citrus Red Mite and Thrips	1 litre/100 litres of water.	Do not apply to trees in hot dry weather when trees are suffering moisture stress. • Do not apply in temperatures over 32°C. • May be applied with oil compatible insecticides to control high pest numbers or mealy bug. • Complete coverage is essential.
Grapes: As a spray adjuvant for insecticides: Powdery Mildew:	1 litre/100 litres of water, mixed with a suitable insecticide. 2 litre/100 litres of water.	Excel [®] Oil - Organic Spraying Oil will assist the spreading, adhesion and penetration into the bark crevices of the insecticide. Apply as a high volume spray to run off. Repeat on a 7-10 day schedule as required to maintain adequate control. Allow a gap of 10-14 days pre or post a sulphur application. This product is short lived and a DMI may be required to maintain powdery mildew control over an extended break. May reduce the visible bloom on red varieties when used close to harvest. Use of this product may delay harvest by up to one week.
Kiwifruit: Greedy, Latania and Oleander scales.	Dormant to pre-flowering 1 litre / 100 litres of water	May be applied with oil compatible pesticide to control high pest numbers. Ensure crop is not under stress from drought or frost before application. Complete coverage is essential.
	Post flowering: Spraying oils have the potential to cause phytotoxic damage to kiwifruit. To minimise the risk of damage it is recommended: HAYWARD – Use 1 litre of Excel [®] Oil - Organic Spraying Oil per 100 litres of water. DO NOT apply during the period from 14 days after fruit set to 35 days after fruit set. The application of oil sprays after March increases the risk of fruit drop, and care is essential. In orchard blocks with very heavy infestations of scale insects use 2 litres of Excel [®] Oil - Organic Spraying Oil per 100 litres of water only during the month of February. (Note: the higher 2 litre rate may give rise to some fruit marking, especially under slow drying conditions). Gold3 – may be applied at 1L per 100L water between 14-21 days immediately after fruit set and then again in the second or third week of February. Application outside of these times or at higher rate may result in unacceptable skin marking or fruit softening and/or premature fruit drop. Notes: All applications of spraying oils should be in response to a demonstrated need and be in accordance with the Crop Protection Programmes for export kiwifruit. Use conventional at least spray volumes post bloom. The use of concentrate spraying or very high volumes of water are not advised. Avoid spray overlap and slow drying conditions.	

CONDITIONS OF SALE: Grochem[®], a brand of ADAMA New Zealand Limited (Grochem) will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of Grochem is limited to the replacement of the goods or (at the option of Grochem) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Grochem within thirty days of delivery.