

**CAUTION**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

eChem  
**e-Oil Insecticide  
and Defoliant Oil**

**ACTIVE CONSTITUENT: 794 g/L PARAFFINIC OIL**

**A highly refined emulsifiable oil for the control or suppression of certain pests in cotton, pulse and oilseed crops, for use as a carrier with ULV insecticides, a defoliation aid in cotton and as an adjuvant for use with certain herbicides in broadacre situations as per the Directions for Use table.**

**IMPORTANT: READ THIS LEAFLET BEFORE USE.**

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**WITHHOLDING PERIOD**

DO NOT harvest for 1 day after application.  
Always adhere to the withholding period on the label of any products used in conjunction with eChem e-Oil.

**GENERAL INSTRUCTIONS**

This product can be used, as indicated in the directions for use, to control or suppress green mirids, silverleaf whitefly and cotton aphids in cotton, *Helicoverpa* spp in cotton, pulse and oilseed crops, and green peach aphids, diamond back moth in pulse and oilseed crops and as a carrier for ULV insecticides or as a cotton defoliation aid with Thidiazuron or Thidiazuron/Diuron (eChem Thi-Ultra). e-Oil will also enhance the performance of Dipel SC in canola and the performance of selective grass herbicides used in broadacre cropping.

**MIXING INSTRUCTIONS**

• When using as a carrier for ULV and Low Volume insecticide applications DO NOT mix with water.

**BLEND ONLY WITH COMPATIBLE ULV INSECTICIDE FORMULATIONS** – the required mixture can either be blended in a separate clean and dry vessel, or directly in the spray tank.

In both cases, add the larger volume last and ensure the whole BLEND is continuously agitated, preferably by recirculation. Other compatible materials should only be added after thorough blending. Thoroughly blend all the materials after each addition.

When mixing in the spray tank, firstly add 25-30% of the total e-Oil amount, then add the required volume of insecticide and lastly the remaining e-Oil amount required, continuously agitating by stirring or by recirculation.

- When using as a defoliation aid, one-quarter fill the spray tank with water and then add the required amount of eChem Thidiazuron 500 SC or eChem Thi-Ultra, then e-Oil, then the remainder of the water with agitator running.
- When mixing with other products always refer to companion product label.

**INSECTICIDE COMPATIBILITY**

e-Oil may be mixed with many commonly used insecticides, including Dipel SC, Gemstar LC (ULV), Regent\*, Shield\*, Pegasus\* and Steward\*. e-Oil and Pix\* are also compatible. Products should be added to the spray tank separately and the spray mixture used promptly.

For the latest information on compatibility of e-Oil with other products, contact eChem Australia Pty Ltd or your local reseller.

When using in mixtures, follow all usage recommendations and rates, precautions and Insecticide Resistance Management Strategy (IRMS) advice for cotton on primary aphicide or insecticide label.

**HERBICIDE COMPATIBILITY**

e-Oil may be mixed with many commonly used herbicides including clethodim 240ECs (e.g. Status\*), haloxyfop methyl ECs (e.g. Inquest\*), quizalofop ethyl ECs (e.g. Targa\* Bolt), clodinafop-propargyl+cloquintocetmexyl ECs (e.g. Trend\*), Glyphosate (ONLY for glyphosate products registered for use in Glyphosate tolerant GMO cotton varieties).

**DEFOLIATION AID**

e-Oil can be mixed with commonly used cotton defoliants thidiazuron (eg eChem Thidiazuron 500 SC) thidiazuron/ diuron (eg eChem Thi-Ultra).

**PROTECTION OF LIVESTOCK, FISH, CRUSTACEANS AND ENVIRONMENT**

Do not contaminate streams rivers or waterways with the chemical or used container.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. DO NOT dispose of undiluted chemicals on site. Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

**REFILLABLE CONTAINERS:**

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**SAFETY DIRECTIONS**

Will irritate the eyes. May irritate the skin. Avoid contact with the eyes and skin. When opening the container and preparing spray wear elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves and face shield or goggles. WHEN USING WITH ANOTHER CHEMICAL CONSULT THE SAFETY DIRECTIONS OF THE COMPANION PRODUCT.

**FIRST AID:**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126, New Zealand 0800 764 766. If swallowed do not induce vomiting.

**SAFETY DATA SHEET (SDS):**

Additional information is listed in the safety data sheet (SDS). A safety data sheet for eChem e-Oil Insecticide and Defoliant Oil is available from the supplier.

**CONDITIONS OF SALE**

eChem (Australia) Pty Ltd. accepts responsibility for the consistent quality of the product however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

APVMA Approval No: 84730/120123

For specialist advice in an emergency dial 1800 638 556 / 24 hours Australia wide.

**DIRECTIONS FOR USE: AS AN INSECTICIDE**

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
Cotton (including GM varieties Sicot 71RR, Bollgard, Bollgard II RR Flex)	<i>Helicoverpa</i> spp.	Qld, NSW, WA NT only	2 % or 2 L/100 L of water	If predator/pest ratio* > 0.45 and there are between 2 to 4 very small and small larvae per metre then apply by ground rig using a minimum of 80 L/ha of water. Target early instar stages. Apply only by ground rig before crop closure. *Predator to pest ratio equals total number of predators per metre (visual check) divided by the number of <i>Helicoverpa</i> eggs and very small plus small larvae; consult Australian Cotton CRC IPM guidelines.
	Cotton aphids ( <i>Aphis gossypii</i> )		2 % or 2 L/100 L of water	Apply by ground rig using a minimum of 80 L/ha of water. Use alone to control rly to mid-season populations of less than 20 aphids per terminal. Do not rely on e-Oil alone to control more than 20 aphids per terminal shoot. If populations exceed 20 per terminal use e-Oil in a mixture with a registered aphicide.
	Green Mirids ( <i>Creontiades dilutus</i> )	All States	2-5 % v/v or 2-5 L/100 L of water	Apply low rate for suppression of fewer than 0.5 mirids/m. Apply high rate if population reaches threshold of 0.5 mirids/m or alternatively apply 2 successive low rate sprays not more than 7 days apart. Apply in a volume of at least 80 L/ha from the ground. When pressure is high, use e-Oil in combination with another insecticide registered for the control of green mirids.
			1-2 % or 1-2 L/100 L of water (Suppression only)	Include e-Oil in tank-mix when applying any other insecticide. Use a minimum of 2 L/ha when applying from the air. Note: e-Oil is not restricted by resistance management strategies and can be applied in combination with most insecticides to simultaneously suppress the rate of mirid population development.
Silverleaf Whitefly ( <i>Bermisia tabaci</i> ) (Suppression only)		2 % v/v (min 2 L/sprayed ha)	Apply in a minimum of 100 L/ha (sprayed ha) for ground application either alone or in combination with another registered insecticide. Use in combination with another registered insecticide when applying from the air. Multiple applications are more effective (14 day intervals). e-Oil is most effective when targeted at low, early season populations in conjunction with weed host management strategies or when used in Zone 2A of the SLW threshold matrix (Consult Cotton Pest Management Guide).	
Canola	Cabbage moth/ Diamond Back Moth ( <i>Plutella xylostella</i> )	All States	Apply at 1–2% or 1–2 L/ 100 L of water in combination with <i>Bacillus Thuringiensis</i> (Dipel* SC) at its label rate	e-Oil will enhance the efficacy of Dipel* SC. Target early instar stages of growth. Follow all the directions on the Dipel* SC label. Use the higher rate for heavy pest pressure.
Pulse crops and oilseed crops including: Adzuki beans, Canola, Chickpeas, Faba beans, Field peas, lentils, Linola, Linseed, Lucerne, Lupins, Mungbeans, Navy beans, Pigeon Peas, Safflower, Soybeans, Sunflower, Vetch	Green Peach Aphid ( <i>Myzus persicae</i> ) (Suppression only)		1–2 L /ha	When aphids first appear in spring use low rate. Repeat application within 14 days. If commercial threshold is reached then apply high rate. A second application within 14 days may be required. For higher populations use low rate in mixture with alternative aphicide. Always apply in high volume (at least 80L/ha) of water. e-Oil is best used as part of an IPM program in which beneficial insects contribute to control. e-Oil will not disrupt natural enemies.
	<i>Helicoverpa</i> spp. (Suppression only)		Apply at 2 % or 2 L/100 L of water either alone, twice 7 days apart, or in combination with Nuclear Polyhedrosis Virus of <i>Helicoverpa</i> spp. At its label rate e.g. Gemstar* or Vivus*.	e-Oil applied alone will suppress populations within the range 20-50% and is best used as part of an IPM program in which beneficial insects contribute to control. Target early instar stages and use high spray volume (at least 80L/ha). e-Oil will not disrupt natural enemies.

**AS A CARRIER FOR LOW VOLUME AND ULV APPLICATIONS**

Use the compatible ULV insecticide at the rate specified on the insecticide label. Blend by thoroughly mixing the required quantity of insecticide with sufficient e-Oil to enable satisfactory operation of the application equipment. Apply only with aircraft fitted with rotary atomisers.

e-Oil can be mixed with Gemstar\* Biological Insecticide for ULV application. Refer to the Gemstar\* label.

**AS A DEFOLIATION AID**

CROP	PEST	STATE	RATE/100 L WATER	CRITICAL COMMENTS
Cotton	Defoliation aid	NSW, Qld only	0.5 L/ha	Apply with a cotton defoliant such as eChem Thiazuron 500 SC or eChem Thi-Ultra in accordance with their labels.

**AS AN ADJUVANT**

CROP	PEST	STATE	RATE/100 L WATER	CRITICAL COMMENTS
Cotton, Cereals, Pulses & oilseeds	Refer to Herbicide labels	All States	0.5 L -1.0 L/ha	e-Oil may be used wherever mineral or seed based oils are recommended unless omission of mineral oils is specifically recommended. e-Oil is compatible with a wide range of herbicides including: clethodim, haloxyfop P (methyl), quizalofop-p-ethyl, clodinafop-propargyl/cloquintocet-mexyl.
Broadacre cropping including fallow			0.5 L -1.0 L	Apply a minimum of 250 mL e-Oil per ha.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**