

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

PROCHEM DUO
250 ULV/EC
INSECTICIDE

ACTIVE CONSTITUENT: 250g/L PROFENOFOS
(an anticholinesterase compound)
SOLVENT: 620g/L HYDROCARBON LIQUID

GROUP	1 B	INSECTICIDE
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For the control of Cotton Bollworm, Native Budworm, Mites and Cotton Aphids
on Cotton.

200 Litre

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DIRECTIONS FOR USE COTTON IN QLD, NSW & WA ONLY RESTRAINT

The effect of PROCHEM DUO could be diminished if rain falls within 6 hours of application.

PEST	RATE/HA	CRITICAL COMMENTS
Mites (<i>Tetranychus spp.</i>) (Mite Flare Suppression)	1 L	Apply in Stage II to reduce the rate of mite build-up associated with the use of synthetic pyrethroids. Where cotton bollworm and native budworm are present, tank mix with the recommended rate of a synthetic pyrethroid.
Mites (<i>Tetranychus spp.</i>) Cotton Aphids (<i>Aphis gossypii</i>)	2 L	Spray timing is important. For best results use as a preventative spray at the first sign of mite and cotton aphid infestation. Repeat applications at 5-10 day intervals as long as mite and cotton aphid activity continues or as indicated by mite and cotton aphid populations.
Cotton Bollworm (<i>Helicoverpa armigera</i>) Native Budworm (<i>Helicoverpa punctigera</i>) [Ovicidal Control]	3 L	Timing is important. For best results apply at or just prior to the anticipated time of hatching of <i>Helicoverpa</i> eggs as indicated by egg levels or scouting.
Cotton Bollworm (<i>Helicoverpa armigera</i>) Native Budworm (<i>Helicoverpa punctigera</i>)	3 – 4 L	Apply as a protective spray program on a 5-10 day schedule against <i>Helicoverpa</i> larvae or as indicated by field scouting. As early larval stages are easier to control, fields should be carefully checked at regular intervals for <i>Helicoverpa</i> eggs and larvae, and sprays applied as far as possible against very small and small larvae. Continue spraying as long as <i>Helicoverpa</i> activity is in evidence. These applications will also control mites and cotton aphids. Use the higher dosage when larger larvae are present.

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

WITHHOLDING PERIOD: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

PROCHEM DUO is a broad spectrum foliar organophosphate insecticide which has both contact and stomach action. PROCHEM DUO is non-systemic and so requires good coverage of the plant, however, it shows excellent translaminar action and is rapidly taken up by the plant.

Mixing

PROCHEM DUO can be applied undiluted by ultra low volume spray equipment or can be mixed with water for low volume application.

For low volume application, add the required amount of PROCHEM DUO slowly to the partly filled spray tank at the rate indicated with the agitator or by-pass in operation. Continue filling the tank to the final spray volume.

Method of Application

For low volume spraying: Apply by ground rig or aircraft fitted with nozzles or rotary atomiser, using a minimum water volume of 50 L/ha by ground rig or 20 L/ha by aircraft.

For ultra low volume (ULV) spraying: Apply by aircraft fitted with rotary atomiser or other suitable equipment either alone or in a mixture with other ULV insecticides as recommended, using a minimum of 1 L/ha.

Compatibility

PROCHEM DUO is compatible with Electra * 225 Insecticide, and some ULV formulations of synthetic pyrethroids recommended for use on cotton.

As formulations of other manufacturer's products are beyond the control of ChemAg Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

Insecticide resistance warning

GROUP	1B	INSECTICIDE
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For insecticide resistance management PROCHEM DUO is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to PROCHEM DUO and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if PROCHEM DUO and other Group 1B insecticides are used repeatedly. The effectiveness of PROCHEM DUO on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any losses that may result from failure of PROCHEM DUO to control resistant insects.

PROCHEM DUO may be subject to specific resistance management strategies. For further information contact your supplier or local agricultural department agronomist.

PRECAUTIONS

DO NOT spray directly on humans. DO NOT contaminate food or feed with this product.

Re-entry Period

DO NOT enter treated areas without protective clothing until 24 hours after spraying.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

PROCHEM DUO may sometimes cause light to moderate injury to some older leaves, particularly when at rates above 3 L/ha and minimum recommended spray intervals. Cotton in the first weeks of flowering, generally 40-80 days after planting, is most likely to be affected. Later in the season PROCHEM DUO is likely to cause reddening of the foliage and advance the maturity of the crops. None of the above influences is likely to adversely influence yield or fibre quality.

The application of PROCHEM DUO as an ultra low volume spray will reduce the likelihood of leaf injury from early season sprays.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby plants/crops, cropping lands or pastures (especially lucerne, sorghum or deciduous fruit trees).

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. This product has an offensive odour which may detrimentally affect air quality.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to the 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt.

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

SAFETY DIRECTIONS

Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Repeated minor exposure may have a cumulative poisoning effect. Avoid inhaling vapour or spray mist. Obtain an emergency supply of atropine tablets 0.6mg. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and a face shield. If clothing becomes contaminated with product, or wet with spray, remove clothing immediately. If product or spray gets on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield and contaminated clothing.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131126. If swallowed, DO NOT induce vomiting. Give a glass of water. If swallowed, give one atropine tablet every fifteen minutes until dryness of the mouth occurs – if poisoned by skin contact or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a Doctor or Hospital quickly.

Material Safety Data Sheets

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 171799.

[MISCELLANEOUS]	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NO.S.*
[DANGEROUS]	(CONTAINS PROFENOFOS)
[GOODS]	UN No. 3082
[SYMBOL]	PACKAGING GROUP III HAZCHEM 2X
In a transport emergency dial 000, Police or Fire Brigade.	

CONDITIONS OF SALE:

"ChemAg Pty Ltd shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on ChemAg's skill of judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of ChemAg has any authority to add to or alter these conditions".

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NRA Approval No: 53326/0900

Batch No:

Date of Manufacture: