

POISON

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

Nufarm
Opal Duo
Insecticide

ACTIVE CONSTITUENT: 200 g/L AMITRAZ
SOLVENT: 50 g/L N-METHYLPYRROLIDONE
637 g/L LIQUID HYDROCARBONS

GROUP 19A INSECTICIDE

For the control of Heliothis on Cotton

Contents: 20 Litres
110 Litres
200 Litres
800 Litres
1000 Litres

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(110L only)



(20L & 200L)

DIRECTIONS FOR USE

(for use in Qld, NSW, WA only)

Crop	Pests	Rate	Critical Comments
Cotton	Heliothis (<i>Helicoverpa</i> spp., <i>bollworm</i> , <i>native budworm</i>)	2.0 L/ha plus the registered rate of a compatible heliothis larvicide	Apply Opal Duo as an ovicide, mixed with a larvicide, when eggs and very small larvae are detected. Repeat treatments at 5 to 7 day intervals, or when necessary, as indicated by regular crop checking. Opal Duo will also provide suppression of mites when used in a spray program.

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 21 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

Opal Duo must always be mixed with the registered rate of a compatible larvicide. The product may be used either in water based low volume, or ultra low volume (ULV) application.

INSECTICIDE RESISTANCE WARNING**GROUP 19A INSECTICIDE**

For insecticide resistance management Opal Duo Insecticide is a Group 19A insecticide. Some naturally occurring insect biotypes resistant to Opal Duo and other Group 19A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Opal Duo or other Group 19A insecticides are used repeatedly. The effectiveness of Opal Duo on resistant individuals can be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of Opal Duo for control resistant insects. Opal Duo may be subject to specific resistant management strategies. For further information contact your local supplier, Nufarm Australia Limited representative or local agricultural department agronomist.

EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with Opal Duo. If you are growing produce for export, please check with Nufarm Australia Limited for the latest information on MRLs and import tolerances BEFORE using Opal Duo.

MIXING**Applied with Water**

Part fill the spray tank with water and then, with the agitator running, add the Opal Duo. Add the compatible larvicide and complete filling the tank. Use prepared spray mixture immediately. **DO NOT allow to stand overnight.**

Applied ULV

Fill the required volume of Opal Duo directly into aircraft hopper or mix vat and with agitation operating add the required volume of a compatible larvicide.

Use prepared spray mixture immediately. **DO NOT allow to stand overnight.** DO NOT add water. In ULV mixtures, it is essential that no water be present in the spray system.

APPLICATION AND EQUIPMENT

Accurate placement and good foliar coverage are essential.

NOTE: Insect control could be diminished if rain falls within 6 hours of application. When mixed with Endosulfan 350 EC ensure that all Endosulfan 350 EC label recommendations are strictly adhered to.

Ground Spray

Standard low volume boom or high volume equipment may be used. Apply in a minimum total volume of 80 L/ha.

AircraftApplied with Water

Opal Duo may be applied by aircraft using water as a carrier. Apply in a minimum total volume of 20 L/ha.

Applied ULV

Opal Duo may also be used without dilution in mixture with some ULV products as listed under 'Compatibility'. A minimum total spray volume of 3.0 L/ha should be applied ULV. For example, where the mixing partner is Astound® Duo the addition of DC Tron Cotton Spray Oil as a bulking agent will be required.

Opal Duo Insecticide must only be applied by aircraft fitted with accurately calibrated ULV equipment, eg. Micronair AU5000 atomisers. To minimise drift it is essential to produce a suitable spray droplet diameter (volume mean diameter) by controlling the rotational speed of the atomisers. It is recommended that the application parameters in terms of plane speed and blade angle settings are adjusted to deliver a maximum rotational speed of 3000 rpm and a resultant droplet diameter of approximately 100 microns. Rotational speed of the atomisers can be measured by the fitment and maintenance of transducers.

COMPATIBILITY**Applied with Water**

This product is compatible with Endosulfan 350 EC, Astound® Duo, Decis® Forte EC, Pix/Concorde®, Curacon® 500EC, Folimat® 800, Larvin® 375 SC and Talstar® 100 EC. Combinations of Larvin 375 SC should be used within 6 hours of mixing.

Applied ULV

This product is compatible with Astound Duo & Decis Forte ULV, Larvin 350 LV, methyl parathion and Curacron ULV.

PRECAUTIONS**Re-entry Period**

DO NOT allow entry into treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned the the neck and wrist and elbow length PVC gloves. Clothing must be laundered after each day's use.

**PROTECTION OF CROPS, NATIVE AND OTHER
NON-TARGET PLANTS**

DO NOT apply under weather conditions or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands, or pastures.

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

DO NOT contaminate streams, rivers or waterways with the chemical used containers. Toxic to fish. The empty container must NOT be reused for any other purpose.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area out of direct sunlight. Immediately and thoroughly close part-used containers to avoid deterioration of product. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals onsite. 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 500 mm in a disposal pit specifically marked and set up for for this purpose clear of waterways, vegetation and tree roots. Empty containers and product should NOT be burnt.

Refillable Containers (800L, 1000L)

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

Envirodrum 110L Mini Bulk Returnable Container

Store the original sealed Envirodrum in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the

Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Nufarm Australia Limited.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray or using prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. 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 Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

Further information refer to the Material Safety Data Sheet (MSDS).

CONDITIONS OF SALE

"Nufarm Australia Limited" ('Nufarm') 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 Nufarm's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Nufarm has any authority to add to or alter these conditions.

APVMA Approval No: 53552/20L/0306
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APVMA Approval No: 53552/1000L/0306

In case of emergency: Phone 1800 033 498

Ask for shift supervisor. Toll free 24 hours.

Batch No:

Date of Manufacture:

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