

CAUTION

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



Oxyfluorfen 240 EC

HERBICIDE

ACTIVE CONSTITUENT: 240 g/L OXYFLUORFEN
SOLVENTS: 606 g/L LIQUID HYDROCARBONS
108 g/L N-METHYL-2-PYROLIDONE

GROUP

G

HERBICIDE

For the selective control of certain broadleaf and grass weeds as per the Directions for Use

IMPORTANT: Read the attached leaflet before use

10 LITRES

*Syngenta Crop Protection Pty Limited
Level 1, 2-4 Lyonpark Road, North Ryde NSW 2113*

*In a transport emergency dial 000, Police or Fire Brigade
For specialist advice in an emergency only, call 1800 033 111 (24 hours)*

APVMA Approval No: 62182/10/0807
IO0807
UN-Free

The Syngenta logo, consisting of a stylized black and white wave graphic above the word "syngenta" in a lowercase sans-serif font, followed by a registered trademark symbol.

syngenta®

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 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 not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Will damage eyes and will irritate the skin. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray, wear:

- cotton overalls buttoned to the neck and wrist
- washable hat
- elbow-length butyl rubber gloves
- goggles

If product 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, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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APVMA Approval No.:62182/10/0807

IO0807

**DRUMMUSTER
LOGO**

Batch No	
Date of Manufacture	

BARCODE

CAUTION

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Oxyfluorfen 240 EC

HERBICIDE

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108 g/L N-METHYL-2-PYROLIDONE

GROUP	G	HERBICIDE
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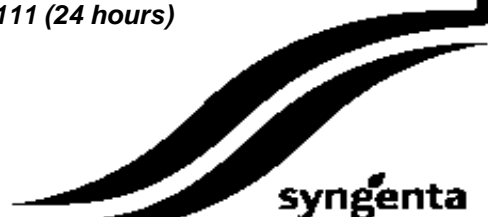
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DIRECTIONS FOR USE

Crop	Weeds	Time of Application	Rate	Critical Comments
Nuts, Tree Fruit, Vines not less than 3 years old Dormant Application Almonds, Apples, Apricots, Grape Vines, Macadamias, Peaches, Pears, Pecans, Plums, Walnuts	Refer to Weeds Controlled list	Weed free soil	3 or 4 L/ha	DO NOT apply once budswell has occurred. Apply to freshly cultivated weed free soil. Use the higher rate for longer residual control (up to 4 months). Where grass weeds are expected to be the major problem, or when control of a wider weed spectrum is needed, mix the lower rate with 4 to 5 L oryzalin (500 g/L) per treated hectare. Read and follow all label directions.
		Emerged weeds present		DO NOT apply once budswell has occurred. Use higher rate when longer residual control (up to 4 months). When light infestations of weeds are present, apply as a tank mix with glyphosate or Gramoxone® to give both knockdown and residual control. Read and follow all label directions. Where weed growth is large and dense, weeds must be eliminated prior to application by using glyphosate or mechanical means.
Almonds, Apples, Apricots, Grape Vines, Macadamias, Peaches, Pears, Pecans, Plums, Walnuts	Annual Weeds: Refer to Weeds Controlled list and glyphosate label	Actively growing emerged weeds	75 mL/ha plus glyphosate at recommended label rates	The addition of INNOVA OXYFLUORFEN to glyphosate will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity (compared to results achieved with glyphosate applied alone) and give control of Annual Nettles (<i>Urtica</i> spp), and Marshmallow (<i>Malva parviflora</i>). For rates of glyphosate refer to the appropriate label. Read and follow all label directions. DO NOT apply the tank mix of INNOVA OXYFLUORFEN and glyphosate near trees or vines less than 3 years old unless they are effectively shielded from spray and spray drift.
Nuts, Tree Fruit, Vines not less than 3 years old Dormant Application Almonds, Apples, Apricots, Grapevines, Macadamias, Peaches, Pears, Pecans, Plums, Walnuts	Most Annual Grasses and Broadleaf Weeds: Refer to Weeds Controlled List and Spray.Seed® 250 label	Emerged weeds present	250 mL plus Spray.Seed 250 at recommended label rates OR 25 to 30 mL/100 L plus Spray.Seed 250 at recommended label rates	The addition of INNOVA OXYFLUORFEN to Spray.Seed 250 will improve control of small flowered mallow, evening primrose and other weeds sensitive to oxyfluorfen. Apply as a tank mix with Spray.Seed 250, refer to the appropriate label and follow all label directions.
Duboisia	Refer to Weeds Controlled List	Weed free soil	4 or 8 L/ha	Apply after transplanting of young seedlings or after harvest of mature plants. Use higher rate where longer residual control (up to 6 months) is required. Over-the-top application will be tolerated.
		Weeds at 4 to 6 true leaf stage		Best results are achieved when applied to moist soil free of weeds. However, some newly germinated small seedling grasses and broadleaf weeds (4 to 6 true leaves) will be controlled at these rates. Established larger weeds must be eliminated by mechanical means prior to the application of INNOVA OXYFLUORFEN. Add a non-ionic surfactant at recommended rates to improve activity.

Crop	Weeds	Time of Application	Rate	Critical Comments
Tropical and Subtropical Fruit (inedible peel) Avocado, Custard Apple, Kiwi Fruit, Longan, Lychees, Mango, Passionfruit, Pawpaw, Rambutan	Refer to Weeds Controlled List	Weed free soil	4 L/ha	Best results are obtained when applied to moist soil free of weeds.
		Emerged weeds present		If weeds are present INNOVA OXYFLUORFEN should be applied as a tank mix with the recommended rates of glyphosate or Spray.Seed.
Brassica Crops Broccoli, Cabbages, Cauliflower		Weed free soil	1.5 to 2 L/ha	Apply INNOVA OXYFLUORFEN to prepared ground 4 to 7 days prior to transplanting. If soil is dry, irrigation or rainfall is required prior to transplanting for activation of INNOVA OXYFLUORFEN. Utilise transplanting techniques which cause minimal soil disturbance. Excessive soil disturbance will lessen herbicide activity. Use the higher rate in situations where weed pressure is known to be heavy.
Onion (seeded)	Blackberry Nightshade (<i>Solanum nigrum</i>)	Hook leaf stage	50 to 100 mL/ha	DO NOT exceed 100 mL/ha at the hook leaf stage as excessive crop damage may occur.
	Common Cotula (<i>Cotula australis</i>), Crowsfoot/ Storksbill (<i>Erodium</i> spp), Deadnettle (<i>Lamium amplexicaule</i>), Docks (<i>Rumex</i> spp), Fumitory (Pink and white flowered) (<i>Fumaria</i> spp), Groundsel (<i>Senecio vulgaris</i>), Hogweed/ Wireweed (<i>Polygonum aviculare</i>), Milk Thistle (<i>Sonchus oleraceus</i>), Plantain (<i>Plantago</i> spp), Potato weed (<i>Galinsoga parviflora</i>), Sorrel (<i>Rumex acetosella</i>), Volunteer potato (<i>Solanum tuberosum</i>)	1½ to 2½ leaf stage	350 to 500 mL/ha	Best results are obtained when the hook leaf stage treatment is followed by a further application of INNOVA OXYFLUORFEN when onions are at the 1½ to 2½ true leaf stage. Apply INNOVA OXYFLUORFEN in at least 100 L/ha water at pressures below 150 kPa. DO NOT exceed 150 kPa because excessive crop damage could result. Multiple treatments may be applied provided the total dose does not exceed 2 L/ha in 1 season. For control of other weeds, use in a program with other registered herbicides. Note: Can cause flecking, twisting or stunting of onion plants although such symptoms are normally short-lived. DO NOT apply in conditions of very high humidity. DO NOT apply to weeds or crops, which are stressed by prevailing weather conditions, disease or mechanical damage. DO NOT use wetting agents or other adjuvants.

Crop	Weeds	Time of Application	Rate	Critical Comments
Tobacco	Refer to weeds Controlled List	Weed free soil	4 L/ha	Use to control weeds along spray lines only. DO NOT apply to tobacco crop. Apply to soil after solid-set irrigation system has been laid out in the field. INNOVA OXYFLUORFEN should be applied to moist soil. Where very small weeds (2 to 3 leaf) emerge prior to spraying, the addition of a wetting agent to the spray mixture is necessary for effective control. Should the weeds be more advanced, the addition of 1.6 L/ha Spray.Seed 250 is required. Avoid spray drift.
Pyrethrum as bare rooted transplants or seedlings	Refer to Weeds Controlled list (except Chickweed)	Pre-plant incorporated into weed free soil worked to a fine tilth	4 to 6 L/ha	Apply prior to final soil preparation. The preferred implements for final soil preparation would be either a multiple tyne cultivator or rotary harrows. Use the 6L rate for heavy black clay soils only (as found in the Derwent and Coal River Valleys). INNOVA OXYFLUORFEN will not provide consistent control of Chickweed.
Pyrethrum greater than 4 leaves	Blackberry Nightshade (<i>Solanum nigrum</i>), Fumitory (<i>Fumaria</i> spp), Hogweed (<i>Polygonum aviculare</i>), Sorrel (<i>Rumex acetosella</i>), Volunteer Potato (<i>Solanum tuberosum</i>), Cleavers (<i>Gallium aparine</i>), Field Bindweed (<i>Convolvulus arvensis</i>), Groundsel (<i>Senecio vulgaris</i>)	Emerged weeds present	100 to 150 mL/ha	Apply when pyrethrum growth stage is greater than 4 true leaf.
Pyrethrum established crops greater than 1 year old	As above plus Sow Thistle (<i>Sonchus</i> spp), Spear Thistle (<i>Cirsium vulgare</i>)		200 mL to 4 L/ha	Apply when pyrethrum is greater than 100 mm rosettes. Apply rates of greater than 1 L/ha only between 1st February and 31st March. DO NOT apply later than 25 weeks before harvest.
Prior to sowing Winter Cereals, Cotton	Annual Weeds: Refer to Weeds Controlled list and glyphosate labels	Actively growing emergent weeds	75 mL/ha plus glyphosate at recommended label rates	Addition of INNOVA OXYFLUORFEN to glyphosate will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity (compared to results achieved with glyphosate applied alone), and give control to Annual Dead Nettles (<i>Urtica</i> spp) and Marshmallow (<i>Malva parviflora</i>).

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

WITHHOLDING PERIOD

Grazing: DO NOT GRAZE TREATED WEEDS

Harvest: NOT REQUIRED WHEN USED AS DIRECTED

WEEDS CONTROLLED

Weeds controlled by INNOVA OXYFLUORFEN include the following:

WEEDS		
BEFORE GERMINATION		SEEDLINGS (less than 4 true leaves)
Amsinckia (<i>Amsinckia</i> spp)	Prickly Lettuce (<i>Lactuca</i> spp)	Amsinckia (<i>Amsinckia</i> spp)
Barley Grass (<i>Hordeum leporinum</i>)	Red Natal Grass (<i>Rhynchelytrum repens</i>)	Bellvine (<i>Ipomoea</i> spp)
Barnyard Grass (<i>Echinochloa</i> spp)	Redshank (<i>Amaranthus cruentus</i>)	Capeweed (<i>Arctoteca calendula</i>)
Blackberry Nightshade (<i>Solanum nigrum</i>)	Ryegrass (<i>Lolium</i> spp)	Common Cotula (<i>Cotula australis</i>)
Bladder Ketmia (<i>Hibiscus trionum</i>)	Sesbania Pea (<i>Sesbania cannabina</i>)	Crowsfoot Grass (<i>Eleusine indica</i>)
Burrgrass (<i>Cenchrus australis</i>)	Shepherd's Purse (<i>Capsella bursa-pastoris</i>)	Deadnettle (<i>Lamium amplexicaule</i>)
Caltrop (<i>Tribulus terrestris</i>)	Smallflower Mallow (<i>Malva parviflora</i>)	Groundsel (<i>Senecio vulgaris</i>)
Capeweed (<i>Arctotheca calendula</i>)	Soursob (<i>Oxalis pes-caprae</i>)	Liverseed Grass (<i>Urochloa panicoides</i>)
Chickweed (<i>Stellaria media</i>)	Sowthistle (<i>Sonchus oleraceus</i>)	Marshmallow (<i>Malva parviflora</i>)
Crowsfoot Grass (<i>Eleusine indica</i>)	Starburr (<i>Acanthospermum hispidum</i>)	Pigweed (<i>Portulaca oleracea</i>)
Deadnettle (<i>Lamium amplexicaule</i>)	Stinkgrass (<i>Eragrostis cilianensis</i>)	Potato Weed (<i>Galinsoga parviflora</i>)
Fat Hen (<i>Chenopodium album</i>)	Summer Grass (<i>Digitaria</i> spp)	Redshank (<i>Amaranthus cruentus</i>)
Giant Pigweed (<i>Trianthema portulacastrum</i>)	Thornapple (<i>Datura stramonium</i>)	Shepherd's Purse (<i>Capsella bursa-pastoris</i>)
Liverseed Grass (<i>Urochloa panicoides</i>)	White Eye (<i>Richardia brasiliensis</i>)	Sowthistle (<i>Sonchus oleraceus</i>)
Lovegrass (<i>Eragrostis</i> spp)	Wild Mustard (<i>Sisymbrium</i> spp)	Stinging Nettle (<i>Urtica urens</i>)
Pigeon Grass (<i>Setaria</i> spp)	Wild Radish (<i>Raphanus raphanistrum</i>)	Stinkgrass (<i>Eragrostis cilianensis</i>)
Pigweed (<i>Portulaca oleracea</i>)	Wireweed (<i>Polygonum aviculare</i>)	Wild Radish (<i>Raphanus raphanistrum</i>)

GENERAL INSTRUCTIONS

Timing

For optimum residual weed control, INNOVA OXYFLUORFEN should be applied to the soil surface prior to weed emergence after all other agricultural operations have been completed, such as mechanical cultivation and reshaping of irrigation furrows. The area should be left undisturbed during the period of desired weed control. When applied to seedling weeds, they should be young and actively growing. Weed control for up to 6 months can be expected, but spot treatment with knockdown herbicides for escaped weeds and perennial grasses may be necessary.

Mixing

When using INNOVA OXYFLUORFEN alone, fill the spray tank at least one third full with clean water, add the recommended amount of INNOVA OXYFLUORFEN while the pump and agitator are running, then complete filling the spray tank.

A non-ionic surfactant, if required by label directions, should be added near the end of the filling process to minimise foaming. When tank mixing with oryzalin, add to one third filled tank, then add the INNOVA OXYFLUORFEN during the filling operation. Maintain agitation during mixing and until spraying is completed. When tank mixing with glyphosate or Spray.Seed, add these after INNOVA OXYFLUORFEN during the filling operation.

When using INNOVA OXYFLUORFEN in mixtures always refer to the appropriate label and read and follow all label directions.

Application

Spray equipment should be calibrated before use. INNOVA OXYFLUORFEN should be applied uniformly as a directed treatment to the base of tree and vine crops using flat fan or off-centre nozzles. Complete coverage of seedling weeds is required for maximum knockdown effect. A water volume of 250 to 500 litres per hectare is recommended for treatments of bare soil. A spray volume of 100 to 1350 litres per hectare is recommended where seedling weeds (4 to 6 leaf) are present. Ensure both the weed foliage and the soil surface are sprayed. Use the higher volumes where weed density is high. Tank mixtures of 75mL/ha of INNOVA OXYFLUORFEN with glyphosate, should be applied in 30 to 200 litres spray volume per hectare. For maximum residual control, INNOVA OXYFLUORFEN should NOT be incorporated or disturbed after application.

Crop safety

INNOVA OXYFLUORFEN may be applied as directed around dormant almond, apricot, peach, plum and pear trees and grape vines of all ages when applied at rates of less than 1.0 L/ha. When applied at 3.0 L/ha and above, the trees and grape vines should be at least 3 years of age. DO NOT apply INNOVA OXYFLUORFEN once budswell has occurred when using rates greater than 1.0 L/ha. Duboisia seedlings and mature plants will tolerate over-the-top applications of INNOVA OXYFLUORFEN. When using the 75 mL/ha rate, INNOVA OXYFLUORFEN may be applied as directed prior to sowing winter cereals.

Compatibility

INNOVA OXYFLUORFEN is compatible with glyphosate, oryzalin, Reglone®, Touchdown®, Spray.Seed and Basta*. As formulations of other manufacturers' products are beyond the control of Syngenta Crop Protection, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

GROUP	G	HERBICIDE
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Resistant Weeds Warning

INNOVA OXYFLUORFEN 240 HERBICIDE is a member of the diphenyl ether group of herbicides. The product has the inhibitor of protoporphyrinogen oxidase mode of action. For weed resistance management, the product is a Group G Herbicide. Some naturally occurring weed biotypes resistant to the product and other Group G herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by the product or other Group G herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

RE-ENTRY PERIOD

DO NOT allow re-entry into treated areas until spray has dried. If prior entry is necessary, wear chemical resistant footwear.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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

PROTECTION OF LIVESTOCK

Use with care when applying in areas frequented by stock.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

This product is highly toxic to wildlife and fish. DO NOT contaminate lakes, ponds, streams, rivers or waterways with the chemical or used containers. Use care when applying in areas frequented by wildlife or adjacent to any body of water. DO NOT apply when weather conditions favour drift from target areas.

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 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 not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

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- cotton overalls buttoned to the neck and wrist
- washable hat
- elbow-length butyl rubber gloves
- goggles

If product 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, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. If swallowed, DO NOT induce vomiting. Give a glass of water.

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