

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



ACTIVE CONSTITUENT: 250 g/L IOXYNIL
present as IOXYNIL OCTANOATE
SOLVENT: 642 g/L LIQUID HYDROCARBON



*For the control of certain broadleaf weeds in allium
crops and pyrethrum crops as specified in the
Directions for Use table.*

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An American Vanguard Company

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DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply to crops or weeds that are stressed due to lack of moisture or frost, or affected by disease.

DO NOT apply immediately before a sprinkler irrigation or when rain is likely to fall. A 3-hour drying period after application is necessary.

DO NOT apply by aircraft or misting machine.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

CROP	WEEDS CONTROLLED	STATE	RATE/HA	CRITICAL COMMENTS
Bulb Onions	Bellvine Burr Medic* Capeweed* Chickweed Climbing Buckwheat (Black Bindweed) Common Heliotrope Common Sowthistle (Milk Thistle) Corn Gromwell (Sheepweed) Dandelion Dead Nettle (Henbit, Stingless Nettle) Fat-Hen Fumitories Green Amaranth Green Crumbweed (Keeled Goosefoot) Lesser Swinecress (Bittercress) Ox Tongue Pigweed (Portulaca) Potato Weed (Yellow Weed) Prickly Paddy Melon Saffron Thistle* Scarlet Pimpernel or Blue Pimpernel Shepherd's Purse Slender Celery* Smallflower Mallow (Marshmallow)* Stagger Weed Threecornered Jack (Spiny Emex) Threeflower Nightshade Turnip Weed (Rapistrum) Wards Weed Wild Radish Wild Turnip Wireweed (Hogweed)*	All states	2.1–2.8 L	CROP: Apply between the 3 and 8 leaf stage. Slight scorch or symptoms of wilting may occur but this is transient as subsequent growth and yield is unaffected. WEEDS: Apply at the cotyledon to 6 leaf stage. Most weeds will be more susceptible at the young plant stage than at later stages of growth. Use the higher rate when weeds are more mature. *Burr Medic, Capeweed, Saffron Thistle, Slender Celery, Smallflower Mallow and Wireweed will be controlled only in the cotyledon stage. Where Wireweed is dominant or weeds are more mature, 2 applications of 2.1 L/ha should be made at an interval of 14 to 21 days.
Pyrethrum (<i>Tanacetum cinerariifolium</i>)	Chickweed Lesser Swinecress (Bittercress) Shepherd's Purse Volunteer Potato Wild Radish Wild Turnip		0.1–1 L	CROP: Apply from 2 true leaf stage onwards. WEEDS: Apply when weeds are still in the seedling stage. Mixtures, rates and timings to be based on local agronomic practices for the region; always seek local agronomic and processor advice.

Table 2. APPLIED AS TANK MIX WITH ANOTHER REGISTERED HERBICIDE IN MULTIPLE APPLICATIONS				
CROP	WEEDS CONTROLLED	STATE	RATE/HA	CRITICAL COMMENTS
Bulb Onions 1 to 8 leaf crop stage	Weeds as specified for bulb onions in Table 1.	Tas, Vic, SA & WA	0.25–0.5 L	<p>CROP: Apply between the 1 and 8 leaf stage. Slight scorch or symptoms of wilting may occur but this is transient as subsequent growth and yield is unaffected. Lower rates should be used on young crops.</p> <p>WEEDS: Apply at the cotyledon to 6 leaf stage. Most weeds will be more susceptible at the young plant stage than at later stages of growth. Use the higher rate when weeds are more mature.</p> <p>Tank mix with Tribunil® Selective Herbicide or another registered onion herbicide. Some weeds will be controlled only in the cotyledon stage and a single application at the lower rate may provide suppression only. Multiple applications will most likely be required for complete weed control.</p>
		NSW & QLD	0.5 L	
Bulb Onions 3 to 8 leaf crop stage	Weeds as specified for bulb onions in Table 1.	All states	0.5–1.5 L	<p>Mixtures, rates and timings to be based on local agronomic practices for the region; always seek local agronomic advice.</p> <p>DO NOT apply more than 4.2 L/ha in total per crop.</p>
Garlic (field grown only)				<p>CROP: Apply between 3-leaf to start of bulbing. Slight scorch or symptoms of wilting may occur but this is transient as subsequent growth and yield is unaffected. Lower rates should be used on young crops.</p> <p>WEEDS: Apply at the cotyledon to 6-leaf stage. Most weeds will be more susceptible at the young plant stage than at later stages of growth. Use the higher rate when weeds are more mature. Some weeds will be controlled only in cotyledon stage and a single application at the lower rate may provide suppression only. Multiple applications will most likely be required for complete weed control, apply subsequent applications at 7–14 days intervals.</p>
Garlic grown in covered or protected situations for seed production (NOT for human or animal consumption)				<p>To improve weed control, apply in a tank mix with other registered or under permit herbicides at label rates. Mixtures, rates and timings to be based on local agronomic practices for the region, always seek local agronomic advice.</p> <p>DO NOT apply more than 2.8 L/ha in total per crop.</p>
Leeks				<p>CROP: Field sown leeks – Apply from the 2-leaf crop stage. Transplanted leeks – Apply once new growth has commenced.</p> <p>Slight scorch or symptoms of wilting may occur but this is transient as subsequent growth and yield is unaffected. Lower rates should be used on young crops.</p> <p>WEEDS: Apply at the cotyledon to 6-leaf stage. Most weeds will be more susceptible at the young plant stage than at later stages of growth. Use the higher rate when weeds are more mature. Some weeds will be controlled only in cotyledon stage and a single application at the lower rate may provide suppression only. Multiple applications will most likely be required for complete weed control, apply subsequent applications at 7–14 day intervals.</p> <p>To improve weed control, apply in a tank mix with other registered or under permit herbicides at label rates. Mixtures, rates and timings to be based on local agronomic practices for the region, always seek local agronomic advice.</p> <p>DO NOT apply more than 2.1 L/ha in total per crop.</p>
Spring Onions, Shallots, Welsh Onions				<p>CROP: Apply from the 3-leaf crop stage onwards. Slight scorch or symptoms of wilting may occur but this is transient as subsequent growth and yield is unaffected. Lower rates should be used on young crops.</p> <p>WEEDS: Apply at the cotyledon to 6-leaf stage. Most weeds will be more susceptible at the young plant stage than at later stages of growth. Use the higher rate when weeds are more mature. Some weeds will be controlled only in cotyledon stage and a single application at the lower rate may provide suppression only. Multiple applications will most likely be required for complete weed control, apply subsequent applications at 7–14 day intervals.</p> <p>To improve weed control, apply in a tank mix with other registered or under permit herbicides at label rates. Mixtures, rates and timings to be based on local agronomic practices for the region, always seek local agronomic advice.</p> <p>DO NOT apply more than 2.8 L/ha in total per crop.</p>

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

WITHHOLDING PERIODS

HARVEST

BULB ONIONS: NOT REQUIRED WHEN USED AS DIRECTED.

SPRING ONION, SHALLOT & WELSH ONION: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

GARLIC (FIELD GROWN ONLY): DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

GARLIC GROWN IN COVERED OR PROTECTED SITUATIONS: DO NOT ALLOW TREATED GARLIC GROWN IN COVERED OR PROTECTED SITUATIONS, SUCH AS, GLASSHOUSES OR PLASTIC TUNNELS TO BE MADE AVAILABLE FOR HUMAN OR ANIMAL CONSUMPTION.

LEEKs: DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION.

PYRETHRUM: DO NOT HARVEST FOR 25 WEEKS AFTER APPLICATION.

WHEN TANK MIXING, FOLLOW THE WITHHOLDING PERIOD OF THE MIXING PARTNER.

GENERAL INSTRUCTIONS

UNYUNOX® 250 EC is a fast acting, post-emergent contact herbicide for the selective control of various broadleaf weeds. UNYUNOX 250 EC does not have any residual soil activity, thus subsequent germinations of weeds will not be controlled. UNYUNOX 250 EC is not translocated within plants, therefore, thorough spray coverage is essential for effective weed control. UNYUNOX 250 EC inhibits the weeds' photosynthesis at photosystem II, this means that weeds must be actively growing for effective control.

MIXING

To ensure even mixing, half fill the spray tank with clean water, add the required amount of product and stir thoroughly. Add the remainder of the water and mix again before spraying.

APPLICATION

The use of this product should follow standard pre-emergence herbicide treatments or cultivation, otherwise the weeds are likely to be too large for successful treatment by the time the crop has reached the tolerant stage. Apply in water volumes of ≥ 440 litres of water per hectare to ensure adequate penetration of the crop canopy and to make certain of the complete and thorough coverage of all target weed foliage.

Boom Sprayer

Equip the machine with flat-fan nozzle tips designed to apply 440 or more litres of water per hectare at a pressure of 200 to 280 kPa. Calibrate the machine before use to ensure that the correct application rate is obtained. Check the height of the boom to ensure that the spray is evenly distributed.

Spray Equipment Hygiene

Before and after spraying UNYUNOX 250 EC, spray equipment including tanks, nozzles, filters and spraylines should be cleaned thoroughly with a commercially available tank and equipment cleaner such as All Clear® DS.

COMPATIBILITY

UNYUNOX 250 EC is compatible with Tribunil Selective Herbicide, Lorox® Linuron DF Herbicide, Lorox Linuron Flowable Herbicide and Bladex® 900 WG Herbicide. Since formulations of other manufacturers' products are beyond the control of AgNova Technologies Pty Ltd, all mixtures should be tested prior to mixing commercial quantities. It is recommended that the physical compatibility is tested in a jar test and then small scale crop safety testing is conducted before treating larger areas.

RESISTANT WEEDS WARNING

GROUP 6 HERBICIDE

UNYUNOX 250 EC Selective Herbicide is a member of the nitrile group of herbicides. UNYUNOX 250 EC Selective Herbicide has the inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management UNYUNOX 250 EC Selective Herbicide is a Group 6 herbicide. Some naturally occurring weed biotypes resistant to UNYUNOX 250 EC Selective Herbicide and other Group 6 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 UNYUNOX 250 EC Selective Herbicide or other Group 6 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, AgNova Technologies Pty Ltd accepts no liability for any losses that may result from the failure of UNYUNOX 250 EC Selective Herbicide to control resistant weeds.

PRECAUTIONS

Re-entry statements for occupational users:

The US EPA OPREC calculator for maintenance activities in onion, indicate an acceptable margin of exposure (MOE >100) is achieved on different days after treatment as shown below:

Table 1 Acceptable (MOE >100) re-entry intervals for maintenance activities based on application rates

Maintenance activity	Re-entry intervals (days) for based on application rate						
	0.25 L/ha	0.5 L/ha	0.75 L/ha	1.0 L/ha	1.5 L/ha	2.1 L/ha	2.8 L/ha
Harvesting, hand	0	4	8	11	15	18	21
Irrigation (handset)	1	7	11	14	18	21	24
Scouting	0	4	8	11	15	18	21
Thinning plants	0	0	0	0	1	4	7
Weeding, hand	8	15	19	22	25	29	>30

It is expected that hand weeding is uncommon practice in onion crops, however when performed in the re-entry intervals listed above, the below recommended PPE is required.

For hand weeding:

DO NOT enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

For other post-application activities:

DO NOT enter treated areas until on the day when MOE is acceptable (Table 1). If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant 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 or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from extreme heat and cold.

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.

SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves, and face-shield. 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 New Zealand 0800 764 766. If swallowed, DO NOT induce vomiting. If in eyes wash out immediately with water.

SAFETY DATA SHEET

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

CONDITIONS OF SALE

AgNova Technologies Pty Ltd shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of AgNova Technologies Pty Ltd for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product or the cost of a product or an equivalent product, then the liability of AgNova Technologies Pty Ltd for any breach of such statutory warranty or condition is so limited.

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Additional statements as required by Safe Work Australia
in accordance with the Globally Harmonised System of Classification and Labelling (GHS).

**Combustible liquid. Causes serious eye irritation. May cause an allergic skin reaction.
Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May be fatal if
swallowed and enters airways. Very toxic to aquatic life with long lasting effects.**

Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Store locked up.

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

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