

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



syngenta®

ACTIVE CONSTITUENT: 240 g/L FOMESAFEN

GROUP **G** HERBICIDE

For the control of a range of broadleaf weeds when applied prior to sowing or post-sowing, pre-emergence in Chickpeas, Narrow Leaf Lupins, Lentils, Field Peas, Faba Beans and Vetch

*Syngenta Australia Pty Ltd
Level 1, 2-4 Lyonpark Road, Macquarie Park 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. 88509/121549

SL

Formulation Type
**Soluble
Concentrate**



DIRECTIONS FOR USE

Restrictions

- DO NOT apply by aircraft
- DO NOT apply if heavy rains or storms are forecast within 3 days
- DO NOT irrigate to the point of runoff for at least three days after application
- DO NOT apply more than 1.5 L/ha in a single season
- DO NOT apply after crop emergence

Spray Drift Restrictions

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. The buffer zones in the buffer zone table below provide guidance but may not be sufficient in all situations. 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 one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets are not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas are observed (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers').

Buffer zones for boom sprayers

Application Rate	Boom Height Above the Target Canopy	Mandatory Downwind Buffer Zones			
		Natural Aquatic Areas	Pollinator Areas	Vegetative Areas	Livestock Areas
Up to 1500 mL/ha	0.5 m or lower	15 metres	0 metres	30 metres	0 metres
	1.0 m or lower	50 metres	0 metres	70 metres	0 metres
Up to 750 mL/ha	0.5 m or lower	5 metres	0 metres	15 metres	0 metres
	1.0 m or lower	30 metres	0 metres	45 metres	0 metres

Crop	Weeds	Rate	Critical Comments
When applied prior to sowing: Chickpeas, Narrow Leaf Lupins, Field Peas, Faba Beans, Vetch	Suppression of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Sowthistle, Bifora, Prickly Lettuce, Wireweed, Slender Celery	500 to less than 750 mL/ha	Apply REFLEX at a single timing, either incorporated by sowing or post-sowing, pre-emergent. Use the higher rate where longer residual control is required or higher weed densities are expected. REFLEX can be tank mixed with simazine, Spinnaker*, Terbyne* Xtreme*, Balance*, diuron or metribuzin where additional weed control is required. Label guidelines for the tank mix products must be adhered to. Extended periods without rainfall after the application of REFLEX have the potential to reduce the level of efficacy achieved, particularly if a weed germination occurs prior to the dry conditions.
	Control of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Sowthistle, Bifora, Prickly Lettuce, Wireweed, Deadnettle Suppression of: Fleabane, Toad Rush, Crassula, Jersey Cudweed, Dense-flower Fumitory, Capeweed, Slender Celery, Double Gee	750 to 1500 mL/ha	
When applied post-sowing, pre-emergent: Chickpeas, Narrow Leaf Lupins, Field Peas, Faba Beans	Suppression of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Wireweed, Dense-flower Fumitory	500 to less than 900 mL/ha	
	Control of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Wireweed, Deadnettle, Dense-flower Fumitory	900 to 1250 mL/ha	
	Control of: Sowthistle, Prickly Lettuce Suppression of: Fleabane, Slender Celery	500 to 1250 mL/ha	
	Suppression of: Bifora, Toad Rush, Crassula, Capeweed, Double Gee	900 to 1250 mL/ha	
When applied post-sowing, pre-emergent: Vetch	Control of: Sowthistle, Prickly Lettuce Suppression of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Wireweed, Fleabane, Dense-flower Fumitory, Slender Celery	500 to less than 900 mL/ha	
	Control of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Wireweed, Deadnettle, Dense-flower Fumitory, Sowthistle Suppression of: Bifora, Toadrush, Crassula, Capeweed, Double Gee, Slender Celery, Fleabane	900 mL/ha	

Crop	Weeds	Rate	Critical Comments
When applied prior to sowing: Lentils	Suppression of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Sowthistle, Bifora, Prickly Lettuce, Wireweed, Slender Celery	500 to less than 750 mL/ha	Lentils can occasionally show crop injury that appears as bronzing or flecking on the leaves. In general, the crop will recover after a period of time as long as seasonal conditions are conducive to strong crop growth.
	Control of: Wild Radish, Indian Hedge Mustard, Wild Turnip, Black Mustard, Sowthistle, Bifora, Prickly Lettuce, Wireweed Suppression of: Fleabane, Toad Rush, Crassula, Jersey Cudweed, Dense-flower Fumitory, Capeweed, Slender Celery, Deadnettle, Double Gee	750 to 1000 mL/ha	Good crop safety with REFLEX is dependent on good separation between the herbicide treated soil and planted seed. Extended periods without rainfall after the application of REFLEX have the potential to reduce the level of efficacy achieved, particularly if a weed germination occurs prior to the dry conditions.

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

WITHHOLDING PERIODS

***Grazing:* DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 12 WEEKS AFTER APPLICATION**

***Harvest:* NOT REQUIRED WHEN USED AS DIRECTED**

EXPORT SLAUGHTER INTERVAL: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

REFLEX® Herbicide is a soil applied, residual herbicide that controls a wide range of broad leaved weeds. It can be applied in one of two ways.

1. A maximum of 7 days prior to a crop being sown and incorporated by the sowing action.
2. Applied to the soil surface after crop sowing but prior to crop emergence. The maximum interval between sowing and application is 10 days.

The herbicide is absorbed through the roots of the target weeds and affected plants will exhibit necrosis before finally being controlled. The active ingredient is slightly soluble in nature and may, depending on soil texture, soil organic matter and rainfall patterns, redistribute through the soil profile. However, to maximise efficacy, attention should be paid to incorporation at the time of seeding to ensure that the herbicide treated soil is distributed evenly, with soil clods minimised.

Incorporation and tillage

REFLEX should only be used in knife point and press wheel seeding system when applied prior to sowing the crop. When applied at a post-sowing pre-emergent timing, REFLEX may be applied following either a knife point press wheel or disc seeding system.

Application to soils prone to waterlogging, sodic soils or soils affected by physical compaction may result in crop injury. Shallow sowing or other seeding factors that result in inadequate seed herbicide separation may cause crop injury. Sandy soil types are more prone to causing crop injury due to furrow collapse and elevated herbicide movement into the soil profile. Application prior to significant rainfall events or irrigation may result in crop injury and reduced weed control.

In Lentils, care should be taken to ensure that treated soil is not dragged back into the seeding furrow at the time of crop planting. Press wheels are important to ensure the furrow wall soil is pressed firmly into place to reduce furrow collapse. Harrows of any type should not be used after the seeding operation. Rolling can occur, but caution should be employed on light, sandy soils that are more prone to soil movement into the furrow.

Mixing

The recommended rate of REFLEX should be added to the spray tank after granular tank-mix partners (if used) are fully dissolved and in suspension. Good agitation should take place to ensure adequate mixing.

Adjuvants

An adjuvant is not required for the use of REFLEX.

Water Rate

A water volume of not less than 50 L/ha or higher is required for the use of REFLEX.

Compatibility

Physical compatibility has been assessed for the following products and, providing strong agitation of the spray solutions is achieved, compatibility will be acceptable.

REFLEX is compatible with any one of the following products:

weedmaster* Argo* (glyphosate), Spray.Seed® (paraquat + diquat), Gramoxone® 360 Pro (360 g/L paraquat), Gramoxone 250 (250 g/L paraquat), Boxer Gold® (prosulfocarb + S-metolachlor), Arcade® (prosulfocarb), Triflur* X (trifluralin), Avadex* Xtra (triallate), Sakura* (pyroxasulfone), Gesaprim® (atrazine), simazine, Dual Gold® (S-metolachlor), metribuzin, diuron, 2,4-D Ester 680.

As formulations of other manufacturer's products are beyond the control of Syngenta, and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities.

Clean up

Thoroughly clean the sprayer using the following procedure when you have finished spraying.

1. Drain and flush tank, boom and all hoses for several minutes with clean water containing a household detergent.
2. Fill the sprayer tank with clean water and add one litre of household ammonia (containing 3% ammonia) per 100 litres of water. Allow the solution to agitate for 15 minutes prior to flushing the solution through the boom and nozzles. Drain the system.
3. Remove the nozzles and screens and wash separately in a bucket containing the ammonia solution.
4. Thoroughly rinse the tank, hoses, booms, nozzles and screens with clean water for a minimum of 5 minutes to remove all traces of ammonia.

Mix only as much spray solution as needed. Immediately after spraying, clean equipment thoroughly using this procedure. Wear appropriate protective clothing.

Re-cropping Intervals

The following re-cropping intervals should be observed between the application of REFLEX at 1500 mL/ha and the planting of a following crop. Lower use rates will reduce any following crop responses noted, though the same re-cropping interval and rainfall thresholds apply.

Crops	Re-cropping Interval	Required Rainfall
Wheat, Oats, Durum Wheat, Chickpeas, Field Peas, Faba Beans, Lupins, Vetch, Lentils	9 months	250 mm
Sub Clover, Medic, Canola, Barley **	9 months	250 mm
Cotton, Mung Beans	3 months	75 mm
Sorghum, Maize	Please contact your Syngenta representative for further information	

**** In some instances, reduced biomass or vigour may be noted in Barley, Canola, Sub Clover and Medics. However, the effect will resolve under good growing conditions and will be unlikely to translate to yield loss.**

Resistant Weeds Warning

GROUP G HERBICIDE

REFLEX Herbicide is a member of the diphenyl ethers group of herbicides within the inhibition of protoporphyrinogen oxidase mode of action. For weed resistance management, REFLEX is a Group G herbicide. Some naturally occurring weed biotypes resistant to REFLEX 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 REFLEX or other Group G herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Australia Pty Ltd accepts no liability for any losses that may result from the failure of REFLEX to control resistant weeds.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

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

Will damage the eyes. May irritate the skin. Avoid contact with eyes and skin. If product in eyes immediately wash it out with water. When preparing spray, wear:

- cotton overalls buttoned to the neck and wrist
- washable hat
- elbow-length chemical-resistant gloves and
- goggles.

Wash hands after use. After each day's use, wash goggles, gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. 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 phone 1800 067 108 or visit our website at www.syngenta.com.au

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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