

CAUTION

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

IGRAN[®] 500

FLOWABLE LIQUID HERBICIDE

**ACTIVE CONSTITUENT:
500 g/L TERBUTRYN**

GROUP C HERBICIDE

Controls certain early competing broadleaf weeds in wheat, barley, triticale, pastures (including plantain pastures) and some varieties of oats and field peas as shown in the Directions for Use table.



APVMA Approval No.: 58673/113683

DIRECTIONS FOR USE

RESTRAINTS

DO NOT APPLY THIS PRODUCT WHEN TEMPERATURES ARE GREATER THAN 18°C FOR THE DAY PRIOR TO, THE DAY OF AND FOR 4 DAYS FOLLOWING APPLICATION.

DO NOT spray under dry frosty conditions or if very dry conditions prevail.

DO NOT spray if weeds or crop/pastures are affected by insects, disease, dust or adverse weather conditions.

DO NOT add wetting agents or crop oils.

DO NOT use main or nozzle filters finer than 50 mesh for tank mixes.

DO NOT tank mix with selective grass herbicides.

DO NOT apply tank mixture of Igran plus Logran* 750 WG or Triasulfuron WG if another Group B herbicide (ASL Inhibitor) has been used during the current season.

IF RAIN FALLS within 6 hours of application, the effect could be diminished.

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Wheat, Barley, Triticale and some varieties of Oats: from 3 leaf to early tillering stage	Amsinckia (Yellow burweed), Capeweed, Corn gromwell (Sheepweed or White ironweed), Dead nettle, Fumitory (Common, White and Dense flowered), Paterson's curse, Toad rush - 2 to 6 leaves	NSW, Vic only	550-850mL/ha	Use the highest rate when Dead nettle or Toad rush is the major problem. Apply by boom spray or aircraft.
	The above weeds in addition to Charlock, Double gee (Three-cornered Jack), Hedge mustard, Hexham scent, Indian hedge mustard, Turnip weed, Wild turnip - 2 to 6 leaves		550-850mL/ha + 300mL/ha of a 500g/L 2,4-D (as amine) or 300mL/ha of a 500g/L MCPA as a tank mix	DO NOT add MCPA or 2,4-D if undersown Medics are present. Apply by boom spray or aircraft. Use the highest rate when Dead nettle, Double gee (Three-cornered Jack) or Toad rush is the major problem.
	<i>Plagiobothrys canescens</i> - 2 to 6 leaves		850mL/ha	

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Wheat, Barley, Triticale and some varieties of Oats: from 3 leaf to early tillering stage	Turnip weed	NSW only	300mL/ha + 6.5g/ha Logran* 750 WG/Trialsulfuron WG	Spray when weeds are in the 2 to 6 leaf stage (up to 6 node/leaflet for field peas, 10 leaflet for Vetch), except 2 to 4 leaf for Double gee. Use rates towards the lower end of the range (where applicable) when weeds are small and soil conditions are very moist. Spray only when weeds are actively growing. Spray only after good rain and when topsoil is moist. Best results are obtained when good soil moisture has been present since planting.
	Hedge mustard, Indian hedge mustard, London rocket, Wild turnip		300mL/ha + 6.5g/ha Logran 750 WG/Trialsulfuron WG to 440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG	
	Black bindweed (Climbing buckwheat), Faba bean (volunteer), Field pea (volunteer), Medic, Shepherd's purse		440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG	
	Dead nettle, Mexican poppy, Wild radish		440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG to 600mL/ha + 13g/ha Logran 750 WG/Trialsulfuron WG	
	Coreopsis, Sunflower (volunteer), Vetch		600mL/ha + 13g/ha Logran 750 WG/Trialsulfuron WG	
	Paterson's curse, Turnip weed	Vic only	300mL/ha + 6.5g/ha Logran 750 WG/Trialsulfuron WG	
	Hedge mustard, Indian hedge mustard, Wild turnip		300mL/ha + 6.5g/ha Logran 750 WG/Trialsulfuron WG to 440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG	
	Crassula, Faba bean (volunteer), Hyssop Loosetrife, Medic, Prickly lettuce (Whip thistle)		440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG	
	Dead nettle, Field pea (volunteer), Wild radish		440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG to 600mL/ha + 13g/ha Logran 750 WG/Trialsulfuron WG	
	Lupins (volunteer), Vetch, Wireweed (less than 3 leaves) suppression		600mL/ha + 13g/ha Logran 750 WG/Trialsulfuron WG	
Wheat, Barley, Triticale and some varieties of Oats: from 3 leaf to early tillering stage	Turnip weed	Qld only	300mL/ha + 6.5g/ha Logran 750 WG/Trialsulfuron WG	Spray when weeds are in the 2 to 6 leaf stage, except 2 to 4 leaf for Double gee. Use rates towards the lower end of the range (where applicable) when weeds are small and soil conditions are very moist. Spray only when weeds are actively growing. Best results are obtained when good soil moisture has been present since planting.
	Dense flower Fumitory, Indian hedge mustard, Small flower Fumitory, Wild turnip		300mL/ha + 6.5g/ha Logran 750 WG/Trialsulfuron WG to 440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG	
	Black bindweed (Climbing buckwheat), London rocket		440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG	
	Wild radish		440mL/ha + 10g/ha Logran 750 WG/Trialsulfuron WG to 600mL/ha + 13g/ha Logran 750 WG/Trialsulfuron WG	
	Coreopsis, Corn gromwell (Sheepweed or White ironweed)		600mL/ha + 13g/ha Logran 750 WG/Trialsulfuron WG	
	Amsinckia (Yellow burrweed), Capeweed, Corn gromwell (Sheepweed or White ironweed), Dead nettle, Double gee (Three-cornered Jack), Fumitory (Common, White and Dense flowered), Rough poppy, Salvation Jane, Toad rush - 2 to 6 true leaves		SA only	
The above weeds in addition to Charlock, Hedge mustard, Hexham scent, Indian hedge mustard, Mallee catch-fly, Turnip weed, Ward's weed, Wild turnip - 2 to 6 true leaves	550-850mL/ha + 300mL/ha of a 500g/L 2,4-D (as amine) or 300mL/ha of a 500g/L MCPA as a tank mix			

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Wheat, Barley, Triticale and some varieties of Oats: from 3 leaf to early tillering stage	Faba beans (volunteer), Long fruited turnip, Long headed poppy, Paterson's curse, Turnip weed	SA only	300mL/ha + 6.5g/ha Logran 750 WG/Triasulfuron WG	Spray when weeds are in the 2 to 6 leaf stage (up to 6 node/leaflet for field peas, 10 leaflet for vetch), except 2 to 4 leaf for Double gee.
	Hedge mustard, Indian hedge mustard, Wild turnip		300mL/ha + 6.5g/ha Logran 750 WG/Triasulfuron WG to 440mL/ha + 10g/ha Logran 750 WG/Triasulfuron WG	Use rates towards the lower end of the range (where applicable) when weeds are small and soil conditions are very moist.
	Ball mustard, Crassula, Medic, Prickly lettuce (Whip thistle)		440mL/ha + 10g/ha Logran 750 WG/Triasulfuron WG	Spray only when weeds are actively growing.
	Field pea (volunteer), Wild radish		440mL/ha + 10g/ha Logran 750 WG/Triasulfuron WG to 600mL/ha + 13g/ha Logran 750 WG/Triasulfuron WG	Spray only after good rain and when topsoil is moist. Best results are obtained when good soil moisture has been present since planting.
	Double gee (Spiny emex, Three-cornered Jack), Lupins (volunteer), Vetch, Wireweed (less than 3 leaves) suppression		600mL/ha + 13g/ha Logran 750 WG/Triasulfuron WG	
	Capeweed, Corn gromwell, Fumitory, Yellow Burrweed - 2 to 6 true leaves, Double gee (Three-cornered Jack) and Toad rush - 1 to 4 leaves	WA only	850mL/ha	
	The above weeds in addition to Indian hedge mustard, London rocket, Lupin, Wild radish and Wild turnip - 2 to 6 true leaves		550-850mL/ha + 600mL/ha of a 500g/L MCPA as a tank mix	Use the highest rate when Fumitory is the major problem weed in addition to Wild turnip, Indian hedge mustard, London rocket, Lupin and Wild radish.
	Turnip weed		300mL/ha + 6.5g/ha Logran 750 WG/Triasulfuron WG	Spray when weeds are in the 2 to 6 leaf stage (up to 6 node/leaflet for field peas, 10 leaflet for vetch), except 2 to 4 leaf for Double gee.
	Dead nettle		440mL/ha + 10g/ha Logran 750 WG/Triasulfuron WG to 600mL/ha + 13g/ha Logran 750 WG/Triasulfuron WG	Use rates towards the lower end of the range (where applicable) when weeds are small and soil conditions are very moist.
	Australian Crassula, Double gee (Spiny emex, Three-cornered Jack), Lupins (volunteer)		600mL/ha + 13g/ha Logran 750 WG/Triasulfuron WG	Spray only when weeds are actively growing. Spray only after a good rain and when topsoil is moist. Best results are obtained when good soil moisture has been present since planting.
Pastures Use on mixtures of either/or Sub. clover (min. of 3 to max. of 10 leaves), Balansa clover (established plants), White clover (min. of 5 to max. of 10 leaves) with either/or Ryegrass, Phalaris, Cocksfoot (min. 3 leaves)	Capeweed (seedling to 10cm diameter), Paterson's curse (seedling to 10cm diameter)	NSW, Vic, Tas only	550-700mL/ha	Apply by boom spray or aircraft. Use the lowest rate early in the season or when weeds are small and young. Increase rate as weed size and age increases. Early germinating Paterson's curse with strong root systems may not be controlled. Some temporary damage may be seen on clover if adverse growing conditions occur at and after spraying. Where a selective grass herbicide or simazine is to be or has been used, Igran should not be used in the same season. See Pasture Safety section in General Instructions.
	Capeweed (seedlings to 20cm diameter), Crassula (1 to 5 cm diameter), Erodium botrys (seedlings to 8 cm diameter), Paterson's curse (seedlings to 20cm diameter), Toad rush (1 to 5 leaves)		400-700mL/ha + 300-500mL/ha of MCPA 500 amine as a tank mix	

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Plantain pastures (seedling and established)	Pasterson's Curse, Capeweed	All States	500-700mL/ha	Spray actively growing weeds when they have no more than 8 true leaves. Use higher rate on larger weeds. Apply to seedling plantain from 4 true leaf stage onwards. In established plantain pasture, if heavy grazing has occurred, allow weed regrowth to 6-8cm before spraying. Plantain will display visual symptoms of leaf bleaching – these effects are temporary. Applications under stressed conditions (ie frost or drought) may increase damage to plantain. Tolerance of Igran 500 to plantain varieties other than PGG seeds "tonic" have not been tested.
Field peas	Amsinckia (Yellow burrweed), Capeweed, Common fumitory, Corn gromwell (Sheepweed or White ironweed), Dead nettle, Paterson's curse, Toad rush	Vic only	700-850mL/ha	Apply as an early post-emergent application when the peas are 10 to 12cm high and have developed 3 to 5 nodes. Weeds should be young and actively growing and in the 4 to 5 true leaf stage. Use rates towards the higher end of the scale when Dead nettle is the major problem and when weeds are in the 6 true leaf stage. Where a selective grass herbicide is to be used, apply Igran 2 weeks before the application of the selective herbicide.
Canning peas, (Green peas, Vining peas, Processing peas)	Blackberry nightshade, Capeweed, Chickweed, Common fumitory, Corn gromwell, Dead nettle, Fat hen, Paterson's curse, Toad rush, Yellow burrweed	Tas only	750mL-1L/ha	Apply as an early post-emergent application when the peas are 10 to 12cm high and have developed 3 to 6 nodes and the weeds are young and actively growing and in the 2 to 4 true leaf stage. Use rates towards the higher end of the scale when Dead nettle and Blackberry nightshade are the major problems.

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

WITHHOLDING PERIODS

Field Peas, Canning Peas:	DO NOT APPLY WITHIN 4 WEEKS OF HARVEST.
Pea fodder and forage:	DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.
Pastures (including plantain pastures):	DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.
Cereals-Igran alone and Igran plus MCPA or 2,4-D as a tank mix:	DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.
Cereals-Igran plus Logran 750 WG / Triasulfuron WG tank mix:	DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

Important

- Spray only after good rain and when top soil is moist and when weeds are actively growing.
- Best results are obtained when good soil moisture has been present since planting.
- DO NOT apply during dry or waterlogged conditions.

CROP SAFETY

DO NOT apply this product to Avon, Saia, Barmah and Cassia varieties of oats. Before applying to other varieties of oats, growers should seek advice from Nufarm for crop safety information. Undersown Medics and American lucerne varieties may be damaged if sprayed. With early and late sown crops damage may occur if spraying is undertaken when temperatures are greater than 18°C. Avoid spraying crops prior to May and from mid-August onwards as daily temperatures and weed size may not be satisfactory. Early sown crops should not be sprayed before the onset of frost and cooler weather.

PASTURE SAFETY

DO NOT apply this product to pasture species other than those stated in the "Directions for Use".
DO NOT apply to Medics and Lucerne as damage may occur.
DO NOT apply to irrigated pasture or seed crops as damage may occur.
DO NOT apply on pastures prior to May or after mid-August or when temperatures are greater than 18°C for the day prior to, the day of and for 4 days following application as pasture damage may occur.
DO NOT apply prior to or following the use of a grass elective herbicide or simazine in the same season as damage to pasture may occur.
DO NOT use in situations where oversowing of pastures may occur.

Pastures which contain young species should be sprayed using the lower label rates. Increase product rate as pasture age and size increases. Only apply this product when conditions at and following application are favourable to pasture growth.

MIXING

Stir product or invert container several times before opening as settling of contents may occur after storage for some weeks. Pour the product into the spray vat through a strainer to remove any dry particles or flakes, which can occasionally occur under hot storage conditions. Add the full quantity of product to the partly filled spray tank while agitating. Fill tank and agitate to ensure thorough mixing. Continue agitation while spraying. Agitate vigorously from the bottom if allowed to stand. Reseal part used containers immediately. If tank mixing, add IGRAN to the spray tank first, then other products. Maintain constant agitation and use immediately.

APPLICATION

Ground Application: Boom spray with flat fan nozzles. Ensure good spray coverage is obtained. Aim to apply 50-100L/ha.

Aircraft Application: Always spray in a cross wind of less than 5 knots, or use smoke generator to indicate air movement. Ensure good spray coverage is obtained. For maximum coverage use fine nozzles. Apply 20-30L/ha.

CROP ROTATION GUIDELINES - IGRAN PLUS LOGRAN 750 WG / TRIASULFURON WG TANK MIXTURE

The following crops can be planted after:

In areas where pH is less than 7.5

- 9 months after an application: Barley, Cereal rye, Chickpeas, Faba beans, Field peas, Lupins, Medics, Oats, Canola, Safflower, Sub. clover, Triticale, Wheat.

In areas where pH is greater than 7.5

- 9 months after an application: Barley, Cereal rye, Oats, Triticale, Wheat.
- 14 months after an application: Cotton, Maize, Sorghum, Soybeans, Sunflowers. Where residual herbicides are applied following an application of IGRAN plus Logran/Triasulfuron WG, the crop rotational guidelines for these products must be followed.
- 22 months after an application: Chickpeas, Faba beans, Field peas, Lupins, Medics, Canola, Safflower, Sub. clover. For all other crops advice should be sought from Nufarm.

RESISTANT WEEDS WARNING

GROUP	C	HERBICIDE
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IGRAN 500 Flowable Herbicide is a member of the triazine group of herbicides and has the photosystem II photosynthesis inhibitor mode of action. For weed resistance management IGRAN 500 Flowable Herbicide is a Group C herbicide. Some naturally-occurring weed biotypes resistant to IGRAN 500 Flowable Herbicide and other Group C 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 IGRAN 500 Flowable Herbicide or other Group C herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of IGRAN 500 Flowable Herbicide to control the resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or a Nufarm representative.

COMPATIBILITY

This product is compatible with Ally*, Associate®, Thistle-Killem® 750 (MCPA amine), Amine 625 (2,4,D amine), Lusta®, Logran* 750 WG/Triasulfuron WG, Kamba® 500 and Kamba® M.

PRECAUTION

Re-entry period

DO NOT enter treated area until spray has dried.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, waterways or drains with the chemical or used containers.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT use in situations where off-target damage may occur, eg vines, tree crops. If using 2,4-D amine or MCPA apply with equipment which will not be used in hormone susceptible crops, particularly cotton and vines. DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift over nearby susceptible plants or crops, cropping lands or pastures.



spraywisedecisions.com.au is an online weather forecasting program and is recommended for use when planning your pesticide application.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in 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, puncture or shred and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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

Harmful if swallowed. Avoid contact with skin. Repeated exposure may cause allergic disorders. When using the product wear elbow length PVC gloves. 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.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre Phone: Australia 131126

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

Causes serious eye damage. Wear protective gloves, clothing, eye and face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS) which can be obtained from your supplier or from the Nufarm website – www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

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Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road
Laverton North Victoria 3026
Tel: (03) 9282 1000
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Contents: 5L
Contents: 20L

APVMA Approval No.: 58673/113683

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