

Label

POISON

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

CHEMAG JUDGEMENT 130 HERBICIDE

**ACTIVE CONSTITUENT: 130g/L HALOXYFOP present as
haloxyfop-P methyl ester
SOLVENT: 740 g/L LIQUID HYDROCARBON**

GROUP	A	HERBICIDE
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For the post-emergent control of wide range of annual and perennial grass weeds in grain legume and oilseed crops, lucerne, medic and clover pasture and seed crops, forestry, bananas, citrus, grapes, pineapples, pome fruit, stone fruit, pyrethrum, tropical fruit and nut crops as specified in the Directions for Use Table.

IMPORTANT : READ THE ATTACHED BOOKLET BEFORE USE.

Contents : 1 Litre
5 Litres
20 Litres
55 Litres
110 Litres
200 Litres

**CHEMAG PTY LTD
ACN 009 234 691
Suite 22 / 11 Preston Street
Como, Western Australia 6152
Tel: (08) 93687474
Fax: (08) 93687475
Email: sales@chemag.com.au**

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. **DO NOT** store near feedstuffs, fertilisers or seeds. 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 no landfill is available, bury empty containers below 500mm 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.

Refillable containers: (55L) *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 other 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 ChemAg Pty Ltd.

SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as above. Prevent entry of chemical or used/damaged containers into drains, streams or waterways.

SAFETY DIRECTIONS

Product will irritate the eyes and may irritate the skin. Avoid contact with eyes and skin. When preparing the spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-

length PVC gloves and face shield or goggles. If product gets in the eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 13 11 26). If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS)

CONDITIONS OF SALE

"ChemAg Pty Ltd 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 ChemAg's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of ChemAg has any authority to add to or alter these conditions."

APVMA APPROVAL
NUMBER:59234/0605

Batch Number:

Date Of Manufacture:

DrumMuster Logo (5L, 20L, 200L)
Envirodrum loo(110L only)

Booklet

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IMPORTANT: THOROUGHLY READ BEFORE USE.

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DIRECTIONS FOR USE**RESTRAINTS:**

DO NOT apply to weeds which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (waterlogged or drought affected), poor nutrition or previous herbicide treatment as reduced levels of control may result.

DO NOT spray if rain is likely to occur within one hour.

Crops	Crop Growth Stage	Weeds Controlled	Weed Growth Stage	Rate (mL/ha)	Critical Comments
Lucerne Medic and Clover Pastures or Seed crops ⁴	Apply from 2 nd leaf, onwards	Annual Ryegrass	2 to 4 leaf	300 + oil ¹ or 400 + wetter ¹	¹² See GENERAL INSTRUCTIONS, Spraying oils/wetters section. FIELD PEAS AND CANOLA: The only oil recommended is Impel™ Spray Adjuvant LUPINS AND FIELD PEAS: Mixtures with Brodal* or simazine may cause crop yellowing and separate applications are recommended. CHICKPEAS, FAB BEANS, LENTILS AND VETCH: Broadleaf herbicides should not be added to Judgement 130 LUCERNE, CLOVER OR MEDIC PASTURE: If grazed or cut for hay immediately prior to treatment delay application until all grasses have fully expanded leaves. Use 300mL + oil or 400 mL + wetter/ha. (See GENERAL INSTRUCTIONS, Spraying oils/wetters Section). If silver grass (<i>Vulpia</i> spp.) is present in pasture, simazine should be tank mixed with the higher rates of Judgement 130 plus a non-ionic wetter. DO NOT Use crop oils. (See GENERAL INSTRUCTIONS, Spraying oils/wetters section). NOTE: Storksbill may not be controlled if simazine or Broadstrike* are tank-mixed with Judgement 130. ³ Use lower rate when growing conditions and crop competition are good and when weed populations are below 100 plants/m ² . Use the higher rate when weed populations are above 100 plants/m ² or when crop competition is poor.
			5 leaf to early tillering	400 + Impel™ Spray Adjuvant ¹	
Canola	Apply from 2 nd leaf to prior to bud formation and stem elongation	Barley grass Brome grass Paradoxa Grass	2 to 4 leaf	200 + oil ¹ or 300 + wetter ²	
			5 leaf to early tillering	300 + oil ¹ or 400 + wetter ²	
Chickpeas Faba beans Field peas Lentils Lupins Vetch	Apply from 2 nd leaf, 2 nd node or 2 nd branch to full flowering	Volunteer cereals			
		Wild oats WA, SA, Tas, Vic Southern and Central NSW only	2 to 4 leaf	150 + oil ¹ or 200 + wetter ²	
			5 leaf to early tillering	200 + oil ¹ or 300 + wetter ²	
		Northern NSW and QLD only	2 to 4 leaf	200 + oil ¹ or 300 + wetter ²	
5 leaf to early tillering	300 + oil ¹ or 400 + wetter ²				
Lucerne Medic and Clover seed Crops and pastures	Apply from 2 nd trifoliolate leaf onwards	Prairie grass (<i>Bromus catharticus</i>)	5 leaf to early tillering	400 + Impel Spray Adjuvant	
	Apply from cotyledons onwards	Musky or Ferny leaf Storksbill: (<i>Erodium moschatum</i>)	Up to 6 leaf or 5cm diameter	150 ³ –200+ Impel Spray Adjuvant ¹ at 500mL/100L of spray mix	
		Long or shiny Leaf storksbill (<i>E. botrys</i>)	Up to 8 leaf or 5cm diameter		
Lucerne	Apply from 2 nd Leaf onwards	Australian Millet	2 leaf to tillering up to 15 cm	600 ¹	¹ See GENERAL INSTRUCTIONS, spraying Oils/wetters section. NAVY BEANS, PEANUTS, SOYBEANS: when Broadleaf weeds are present Blazer* (except on navy Beans) or Basagran* at label rates may be tank mixed with Judgement 130 plus wetter. When tank mixing with the above broadleaf herbicides. Only use Judgement 130 at 600mL/ha for optimum grass control. Tank mixtures may cause transient leaf spotting on the crop but do not normally affect yield. When mixing with Blazer or Basagran DO NOT add spraying oil to these mixtures. Oils/ wetters section. DO NOT tank mix broad leaf herbicides with Judgement 130 if grasses have begun tillering or if the grasses are under moisture stress
		Barnyard grass	2 to 5 leaf	400 ¹	
Navy beans Soybeans Mung beans	Apply from 2 nd leaf to flowering		Tillering up to 15cm	600 ¹	
		Crowfoot Grass Green panic Johnson grass (rhizome)	2 leaf to tillering up to 15cm	600 ¹	

Crops	Crop Growth Stage	Weeds controlled	Weed Growth Stage	Rate (mL/ha)	Critical Comments	
Peanuts	Apply from 2 nd leaf to Pegging	Crowsfoot Grass Green panic Johnson grass (rhizome)	2 leaf to tillering up to 15cm	600 ¹	Continued See Critical Comments on previous page.	
		Johnson grass (rhizome)	2 to 5 leaf	400 ¹		
Cotton	Apply from 2 nd leaf before the onset of flowering	Liverseed Grass (seedling)	Tillering and Up to 15cm	600 ¹		
		Mossman River grass		600 ¹		
Sunflowers	Apply from 2 nd leaf to head to initiation	Summer Grass	2 leaf to tillering up to 15cm	600 ¹		
		Volunteer cereals	2 to 4 leaf			400 ¹
	Apply from 2 nd leaf to head initiation		tillering up to 15cm	600 ¹		
Orchard, vine and plantation Crops Including: Apples Avocado Banana Blueberry Citrus Custard apple Feijoa Grapevines Guava Kiwifruit Lichi Longan Mango Nashi Nut trees Passionfruit Paw paw Pear Persimmon Pineapple Rambutan Stone fruit	All growth stages	Perennial grasses: Couch	Established Stands	1600 - 3200 ¹		¹ See GENERAL INSTRUCTIONS, spraying oils/wetters section. Couch Grass: Only use on actively growing stands which are not moisture stressed. Use the 3200 mL/ha rate for optimum control. Spray should be directed to the base of the tree or Vine avoiding contact with fruit and foliage. Spot spray: Use 10mL to 20mL/10L of water. Use higher rate on late tillering mature grasses. Where treated in association with perennial grasses, these annual grasses will be controlled.
		Paspalum Johnson grass	Vegetative to early tillering	800 ¹		
			Late tillering	1600 ¹		
<u>Annual grasses:</u> Annual ryegrass Barley grass Barnyard grass Brome grass Crowsfoot grass Green panic Lesser canary Grass Liverseed grass Mossman river Grass Paradoxa grass Summer grass Volunteer Cereals Wild oats	2 leaf to tillering	800 ¹				

Crops	Crop Growth Stage	Weeds controlled	Weed Growth Stage	Rate (mL/ha)	Critical Comments
Forestry: <i>Pinus radiate</i> <i>Eucalyptus spp</i>	All growth stages	Annual grasses As above	2 leaf or tillering	800 ¹	Continued... see critical comment on previous page.
Forestry: <i>Pinus pineaster</i>			Vegetative to tillering	500 ⁵ - 1000 ¹	¹ See GENERAL INSTRUCTIONS, Spraying oils/wetters section. ⁵ Apply lowest rate to newly emerged grasses, increasing the rate as they develop.
Pyrethrum		Barley grass Brome grass Rope twitch Barnyard grass Erodium spp. Volunteer cereals		400 - 1000 ¹	¹ See GENERAL INSTRUCTIONS, Spraying oils/wetters section.

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

HARVESTING WITHHOLDING PERIODS:

NOT REQUIRED WHEN USED AS DIRECTED FOR:

CANOLA, CHICKPEAS, COTTON, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, MUNG BEANS,

NAVY BEANS, PEANUTS, SOYBEANS, SUNFLOWER, VETCH.

DO NOT HARVEST FOR:

MEDIC AND CLOVER SEED CROPS: 7 DAYS AFTER APPLICATION

STOCK FOOD WITHHOLDING PERIODS:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR:

CANOLA, CHICKPEAS, COTTON, FABA BEANS, FIELD PEAS, LENTILS, LUPINS, NAVY BEANS, PEANUTS, SOYBEANS, SUNFLOWERS, and

VETCH: 28 DAYS AFTER APPLICATION

LUCERNE: 21 DAYS AFTER APPLICATION

MEDIC AND CLOVER PASTURE: 7 DAYS AFTER APPLICATION

COTTON GIN TRASH MUST NOT BE FED TO ANIMALS

GENERAL INSTRUCTIONS**Mixing**

Add water to the spray tank to 10cm above the level of agitation and ensure the agitation device is working vigorously. (There must be a minimum of 100L of water in the tank before any pesticide is added.)

If tank mixing, firstly add any soluble liquid formulations (eg. Lontrel/Archer Herbicide) and allow agitation for approximately one minute. Then add Judgement 130 at the point where agitation is strongest. (**Do not add Judgement 130 through a strainer or sieve**) Allow further agitation for one minute. Half fill the spray tank. If using wettable powder or water dispersible granules, or other emulsifiable concentration formulations (eg. Chemag Chlorpyrifos 500 EC Insecticide or LE-MAT/Comrad) these should be **added after the Judgement 130** to the half full spray tank ensuring vigorous agitation.

Final add Impel Spray Adjuvant or approved alternate spraying oil/wetter. (See section on *spraying oils/wetters*) and continue filling the tank to the required volume maintaining agitation at all times.

Only mix sufficient solution for immediate use. Judgement 130 and any other tank mixes should be applied immediately for best results.

Spraying oils/wetters

¹**Spraying Oils:** it is essential to add an adjuvant to Judgement 130. Best results will be achieved with Impel Spray Adjuvant at 500mL/100L of spray solution. Alternatively, other oils plus a non-ionic wetter may also be used. When other crop spraying oils are used, mix at 1.0L/100L and add a non-ionic wetter (surfactant) at 200mL/100L of spray solution. **Use of an oil is not always recommended.** See Critical Comments for specific situation recommendations.

²**Non-ionic Wetters:** When Impel or other oils are not used, a 100% concentrate non-ionic wetter (such as Chemwet 1000 at 200mL/100L) must be used along with the higher rate of Judgement 130 as specified in the directions for use table. Where water volumes of less than 50L/ha are used, **DO NOT** use less than 250mL/ha of Impel or less than 100mL/ha of wetter.

CANOLA, LUCERNE, MEDIC AND CLOVER PASTURES AND SEED CROPS:

When tank mixing Judgement 130 with Lontrel/Archer (canola only) or Broadstrike (lucerne, clover and medics), use Impel Spray Adjuvant with the lower rates of Judgement 130 or a wetting agent with the higher rates of Judgement 130 unless otherwise specified. When mixing Judgement 130 with other broadleaf herbicides on these crops DO NOT use an oil, use a wetter instead.

FIELD PEAS AND CANOLA:

The only oil recommended is Impel Spray Adjuvant.

NAVY BEANS, PEANUTS, SOYBEANS:

When mixing with Blazer or Basagran DO NOT add spraying oil to these mixtures.

Compatibility:

Ground use only: Judgement 130 Herbicide can be tank mixed with:

Insecticides: Lorsban 500 EC/Chemag
Chlorpyrifos 500EC insecticide
Dimethoate

	Endosulfan
	Omethoate
Herbicides	Broadstrike Herbicide
	Lontrel/Archer Herbicide (clopyralid)
	Starane 200/Tomigan
Herbicide	Basagran
	Blazer
	Atrazine
	MCPA ester (LVE) – DO NOT exceed 700mL/ha of MCPA LVE
	Simazine
Fungicides	mancozeb
Trace elements:	magnesium sulphate
	Zinc sulphate

Aerial use: No product other than a recommended crop oil or wetter should be mixed with Judgement 130 Herbicide when applied by air except for addition of Lontrel/Archer for use in forestry and canola only.

Application

Apply Judgement 130 Herbicide in sufficient water to obtain good coverage. It should be applied by an accurately calibrated ground rig or aircraft delivering 200-300 micron droplets.

The following spray volumes are recommended:

Ground application	50-150L/ha
Aerial application	30L/ha

minimum

Use higher water volumes in dense crops where the weeds may be shielded by the crop canopy.

CLEANING SPRAY EQUIPMENT

If broadleaf herbicides, particularly sulfonylureas, have been used in the spray equipment at any time prior to Judgement 130, particular care should be taken to follow the directions of the relevant broadleaf herbicide label for equipment cleaning, or damage to susceptible crops may occur.

After using Judgement 130, empty the tank completely and drain the whole system. Thoroughly wash inside the tank and pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

To rinse. After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

To decontaminate. Before spraying cereals, maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent (e.g. SURF, OMO, DRIVE, Cold Water SURF Concentrate, DynamoMatic Concentrate) at 500mL/100L of water or the powder equivalent at 500g/100L of water and circulate throughout the system for at least fifteen minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. Chlorine based cleaners are not recommended.

Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from desirable plants and water sources.

RESISTANT WEEDS WARNING

GROUP A HERBICIDE

Judgement 130 Herbicide is a member of the aryloxyphenoxy propionate group of herbicides. The product has the acetyl CoA carboxylase inhibitor mode of action. For weed resistance management the product is a group A herbicide.

Some naturally occurring weed biotypes resistant to the product and other Group A 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 this product or other Group A herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local ChemAg Pty Ltd representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Judgement 130 Herbicide damages cereals and grasses. **DO NOT** allow spray drift to occur. **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. Cereal crops or grasses planted within twelve weeks of application may be damaged by the residual effects of Judgement 130 Herbicide, particularly on light and red soils.

PROTECTION OF LIVESTOCK

DO NOT graze or cut treated crops for stock food except as specified under withholding periods.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Judgement 130 Herbicide is toxic to fish. **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. **DO NOT** store near feedstuffs, fertilisers or seeds. 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.

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Refillable containers: 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

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Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as above. Prevent entry of chemical or used/damaged containers into drains, streams or waterways.

SAFETY DIRECTIONS

Product will irritate the eyes and may irritate the skin. Avoid contact with eyes and skin. When preparing the spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and face shield or goggles. If product gets in the eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

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