

LABEL.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

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Page 1 of 2

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



RLP
Approved



CHEMFORCE
Metsulfuron 600 WG Herbicide

ACTIVE CONSTITUENTS: 600 g/L METSULFURON METHYL

GROUP	B	HERBICIDE
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For the selective control of brush and broadleaf weeds in native pastures, rights of way, commercial and industrial areas and for the control of certain broadleaf weeds in winter cereal crops, as specified in the Directions For Use Table

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE

NET CONTENTS: 200g, 500g

APVMA Approval No: 61077/47988

LABEL.

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DATE: 31st August 2012

Page 2 of 2

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STORAGE AND DISPOSAL

Keep out of reach of children.

Store in the closed, original container in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Shake empty box into spray tank.

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 containers in a local authority landfill. If no landfill is available, bury the 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.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray wear elbow-length PVC gloves and goggles. If applying by hand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If product on skin, immediately wash area with soap and water. If product in eyes, wash 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 Australia 13 11 26.

MATERIAL SAFETY DATA SHEET (MSDS)

Additional information is listed in the MSDS which is available from the supplier.

WARRANTY

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under abnormal conditions.

In case of emergency: Phone 000, Police or Fire Brigade.

APVMA Approval No: 61077/47988

Batch No:

Date of Manufacture:

Chemforce 2010 Pty Ltd
99 Garling Street
O'Connor, 6163, W.A.
Ph: (08) 9337 4933
Fax: (08) 9337 8316

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 1 of 26

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

CHEMFORCE
Metsulfuron 600 WG Herbicide

ACTIVE CONSTITUENTS: 600 g/L METSULFURON METHYL

GROUP	B	HERBICIDE
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For the selective control of brush and broadleaf weeds in native pastures, rights of way, commercial and industrial areas and for the control of certain broadleaved weeds in winter cereal crops, as specified in the Directions For Use Table

IMPORTANT: READ THE LEAFLET BEFORE USE

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Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

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DIRECTIONS FOR USE- BRUSH APPLICATIONS:

RESTRAINTS:

DO NOT spray if rainfall is expected within 4 hours. **DO NOT** store the prepared spray for more than 2 days. **DO NOT** store tank mixes with other products.

DO NOT apply to pastures based on *Paspalum notatum* or *Setaria spp.* as their vegetative growth will be reduced.

DO NOT treat newly sown pastures as severe damage may occur.

DO NOT use on pasture seed crops

SITUATION	WEEDS CONTROLLED	State	RATE*			CRITICAL COMMENTS FOR ALL WEEDS: Apply when target weed is in active growth and not under stress from waterlogging, drought etc
			HANDGUN (g/100L)	GROUND BOOM (g/ha)	GAS GUM (g/L)	
Native pastures ** Right of way. Commercial and Industrial Areas	Alligator Weeds (<i>Altermanthera philoxeroides</i>)	NSW, Qld only	10	80		DO NOT apply in aquatic situations for complete control follow up applications are necessary for at least the next two seasons.
	Apply Box (<i>Angophora floribundo</i>), Messmate Stringybark (<i>E oblique</i>), Narrowleaf Peppermint (<i>E radiata</i>), Blakely's Red Gum (<i>E blakely</i>), Yellow box (<i>E meliodora</i>)	NSW, Qld, SA only	10 + an organosilicane penetrant (200mL/100L)		1 + an organosilicane penetrant (10mL/5L)	Apply to plants up to 4m high. Ensure thorough coverage. Avoid spraying when plants are stressed. Results cannot be guaranteed where suckers originate from large lignotubers.
	Australian Blackhorn (<i>Bursera sp.</i>)	NSW, Qld, Vic, Tas only	10		1 + an organosilicane penetrant (10mL/5L)	For handgun applications apply to ensure thorough coverage but not to cause run-off.
	Bellyache Bush (<i>Jatropha gossypifolia</i>)	Qld only	10 + an organosilicane penetrant (200mL/100L)			
	Blackberry (<i>Rubus spp</i>)	All States & NT	10 + mineral Crop oil (1L/100L)		1 + an organosilicane	Spray to thoroughly well all foliage and canes. Ensure peripheral runners are

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

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					penetrant (10mL/5L)	sprayed. Tas. Apply after petal fall. DO NOT apply to bushes bearing mature fruit. Vic Apply between December and April
	Bitou Bush/ Boneseed (<i>Chrysanthemoides monilifera</i>)	QLD, NSW, Vic, SA only.	10		1 + an organosilicane penetrant (10mL/5L)	Minimise contact with desirable plants. Apply to point of run-off.

SITUATION	WEEDS CONTROLLED	STATE	RATE*			CRITICAL COMMENTS FOR ALL WEEDS: Apply when target weed is in active growth and not under stress from waterlogging, drought etc
			HANDGUN (g/100L)	GROUND BOOM (g/ha)	GAS GUM (g/L)	
Native pastures** Right of Way Commercial and Industrial Areas	Bridal Creeper (<i>Myrsiphyllum asparagoides</i>)	SA only.	5			Apply from mid-June to late August to achieve complete control follow-up applications over at least 2 seasons are required. To minimise damage to native vegetation, water volumes of 500-800L/ha are recommended.
	Common Bracken (<i>Pteridium esculentum</i>)	All states	10	60		Apply after 75% fronds are fully expanded. Spray to thoroughly wet all foliage but not to cause run-off. For boom application adjust boom height to ensure complete spray overlap.
	Crofton Weed (<i>Eupatorium adenophorum</i>)	QLD, NSW only	15			Spray to thoroughly wet all foliage but not to cause run-off. When bushes are in thickets ensure good spray penetration. Apply up to early flowering. Best results are obtained on younger plants. Should regrowth occur, re-treat in the next growth period.
	Darling Pea (<i>Swainsona spp.</i>)	NSW only		10		Spray during spring
	Fennel (<i>Foeniculum vulgare</i>)	NSW only	10			
	Golden Dodder (<i>Cuscuta australis</i>)	Qld, NSW, Vic, SA only	1			Apply as a spot spray to point of run-off at pre-flowering. Ensure correct coverage of infested area.
	Great Mullein (<i>Vebascum Thapsus</i>)	NSW only		20 + an organosilicane penetrant		Apply to rosettes during stem elongation during spring when soil moisture is good. Regrowth may occur if plants are treated when growing conditions are not good.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

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				(200mL/100L)		
	Harrisia Cactus (<i>Eriocereus spp.</i>)	Qld only	20			Spray to thoroughly wet using water volumes of 1,000 -1500 litres per hectare. A follow-up treatment may be necessary.
	Hawthorn (<i>Crataegus spp.</i>)	NSW only	10			Spray to thoroughly wet all foliage but not cause run-off
	Inkweed (<i>Phytolacca octandra</i>)	Qld, NSW only	5			Spray to thoroughly wet all foliage but not cause run-off

SITUATION	WEEDS CONTROLLED	STATE	RATE*			CRITICAL COMMENTS FOR ALL WEEDS: Apply when target weed is in active growth and not under stress from waterlogging, drought etc
			HANDGUN (g/100L)	GROUND BOOM (g/ha)	GAS GUM (g/L)	
Native pastures** Right of Way Commercial and Industrial Areas	Japanese Sunflower (<i>Tithonia diversifolia</i>)	NSW only	10			Spray to thoroughly wet all foliage but not to cause run-off.
	Kangaroo thorn (<i>Acacia paradoxa</i>)	NSW only	10			Do Not apply to bushes greater than 2.5m high
	Mistflower/Creeping Crofton (<i>Eupatium riparium</i>)	Qld, NSW only	5			Spray to thoroughly wet all foliage but not to cause run-off. Apply up to early flowering.
	Noogoora burr (<i>Xanthium pungens</i>)	NSW only	7.5			If plants sprayed under moisture stress, control will not be achieved.
	Parthenium Weed (<i>Partherium hysterophanus</i>)	Qld only	5	7		Handgun-Spray to thoroughly wet all foliage but not to cause run-off Boom – For pastures only. Apply up to the rosette stage ensuring thorough spray coverage. Adjust boom height to ensure thorough spray overlap.
	Parthenium Weed (<i>Partherium hysterophanus</i>)	NSW only	5			
	Paterson's Curse Salvation Jane (<i>Echium plantagineum</i>)	All states	5	15		Handgun- Spray to thoroughly wet all foliage but not to cause run-off Boom spray- Adjust boom height to ensure correct overlap.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

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						WA only – Apply up to early flowering ie August – September.
	Privet (<i>Ligustrum spp.</i>)	Qld, NSW only	10		1 + an organosilicone penetrant (10mL/5L)	DO NOT apply to bushes more than 3m tall Ensure complete spray coverage. Complete foliage spray coverage is essential for control partial spray coverage will result in recovery.
	Ragwort (<i>Senecio jacobaea</i>)	NSW, Vic, Tas only	5	15		Apply to plants at the rosette to cabbage stage
	Rubber vine (<i>Cryptostega grandiflora</i>)	QLD only	15			Do not apply to bushes more than 3 m tall. Apply October to April, ensuring thorough spray coverage of all foliage and leaders. Incomplete coverage will result in re-growth. DO NOT treat plants infected with rust.

SITUATION	WEEDS CONTROLLED	STATE	RATE*			CRITICAL COMMENTS FOR ALL WEEDS: Apply when target weed is in active growth and not under stress from waterlogging, drought etc
			HANDGUN (g/100L)	GROUND BOOM (g/ha)	GAS GUM (g/L)	
Native pastures** Right of Way Commercial and Industrial Areas	Smartweed (<i>Polygonum spp.</i>)	Qld, NSW only	10	10	-	
	Sweet Briar (<i>Rosa rubignosa</i>)	NSW, Vic, Tas, SA only	10		1 + an organosilicone penetrant (10mL/5L)	Do not apply when bushes are stressed. When leaf fall commenced or after the end of February. Handgun-Spray to thoroughly wet all foliage but not to cause run-off Vic only – Gasgun: DO not apply to bushes more than 2m tall Apply with start of 25mL of dilute product.
	Wait-A-While (<i>Ceasalpiria decapelata</i>)	Qld only	10			
	Wild Turnip (<i>Brassica</i>)	NSW only	5			

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 6 of 26

	<i>taurnefortii</i>				
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**** LEGUMES IN THE PASTURE WILL BE DAMAGED**

*** ALWAYS ADD A SURFACTANT/WETTING AGENT**

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

WITHHOLDING PERIOD – NOT REQUIRED WHEN USED AS DIRECTED

AERIAL APPLICATION BY HELICOPTER

RESTRAINTS: DO NOT apply if rainfall is expected within 2 hours of spraying.
DO NOT store tank mixes with other products.
DO NOT store the prepared spray for more than 2 days.

SITUATION	WEEDS CONTROLLED	STATE	RATES * (g/ha)	CRITICAL COMMENTS FOR ALL WEEDS: Apply when target weed is in active growth and not under stress from waterlogging, drought etc
Native pastures** Right of Way Commercial and Industrial Areas	Blackberry (<i>Rubus spp.</i>)	NSW, Tas, Vic only	160	Ensure all foliage is thoroughly covered including prepheral runners. Use at least 100L of prepared spray per hectare. Tas Apply after petal fall. DO NOT apply to bushes bearing mature fruit. Vic only – Apply between December and April.
Flood plains	<i>Mimosa pigra</i>	NT only	50 or 60	Use the higher rate when air temperature exceeds 35°C. Apply in at least 60L/ha of clean water. Use D6 or D8 nozzle with 45 swirl plates pressured to 210 kPa to give large droplet size. Add a non-ionic surfactant.

****LEGUMES IN THE PASTURE WILL BE DAMAGED. * ALWAYS ADD A SURFACTANT/WETTING AGENT**

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CHEMFORCE METSULFURON 600WG HERBICIDE + GLYPHOSATE 360 TANK MIX (Always refer to First Aid, Safety Directions, Resistant Weeds Warning and any other restrictions for Glyphosate 360)

For all states

RESTRAINTS:

DO NOT apply if rainfall is expected within 6 hours of spraying.

DO NOT store the prepared spray for more than 2 days

DO NOT store tank mixes with other products

DO NOT apply to plants wet with dew or rain or if droplets run-off when plants are disturbed.

Results may be slow to appear and may not be visible for 3-6 weeks. Full Brown-out may take 3-6 months.

SITUATION	WEEDS CONTROLLED	RATE		CRITICAL COMMENTS
		ALWAYS ADD AN ORGANOSILICONE PENETRAT		
		BOOM OR AERIAL	HANDGUN OR KNAPSACK	
Native pastures** Right of Way Commercial and Industrial Areas, Domestic and Public Service Areas	Blackberry (<i>Rubus spp</i>)	60 + 8L Glyphosate 360	3g + 400mL Glyphosate 360 per 100L water	Apply from flowering and before leaf yellowing. DO NOT apply to bushes bearing mature fruit.
	Bracken (<i>Pteridium esculentum</i>)	30 + 4L Glyphosate 360		Apply when fronds are fully expanded but before first frosts. Refer to boom spraying section if applying by boom spray
	Gorse (<i>Ulex europaeus</i>)			DO NOT apply in spring. Apply to actively growing plants.
	Lantana (<i>Lantana camara</i>)			Apply to actively growing plants which are not drought stressed.
	St. Johns Wort (<i>Hypericum perforatum</i>)			Apply in Spring to Summer to actively growing plants.
	Sweet Briar (<i>Rosa rubiginosa</i>)			Apply when plants are in full leaf. Do not apply once leaf fall has commenced.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

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SITUATION	WEED CONTROL	STATE	RATE PER 100 L HAND GUN OR KNAPSACK Always add a non-ionic surfactant unless otherwise specified	CRITICAL COMMENTS
Native Pastures ** Right of ways, Commercial and Industrial Areas, Domestic and Public Service Areas	Apple box (<i>Angophara firibunda</i>)	NSW only	10g + 200mL Gluphosate 360 + organosilicone penetrant (200mL/100L)	Spray plants up to 4m high ensuring thorough coverage. Plants growing from large lignotubers may not be controlled.
	Australian blackthorn (<i>Bursania spinasa</i>)	NSW, QLD, Vic Tas only	10g +200mL Glyphosate 360	Spray to point of run off
	Bitou Bush / Boneseed (<i>Chysanthemoides monilfera</i>)	NSW, Qld, Vic, SA only		Ensure thorough coverage – minimise contact with desirable species.
	Blackberry (<i>Rubus spp.</i>)	All states		Ensure thorough coverage. Peripheral runners must also be covered to minimise regrowth. Apply between January and April. TAS ONLY: Apply after petal fall. Do not apply to bushes bearing mature fruit.
	Gorse (<i>Ulex europaeus</i>)	NSW, Vic, Tas, SA only	10g + 200mL Glyphosate 360 + organosilicone penetrant (200mL/100L)	Ensure thorough coverage and penetration of spray into the bush. Apply to plants up to 2m tall.
	Messmate Strinybark (<i>E. Oblique</i>) Narrowleaf Peppermint (<i>E. Radiate</i>) Blakely's Red Gum (<i>E. Blakely</i>) Yellow box (<i>E. Melliodora</i>)	NSW only	10g + 200mL Glyphosate 360 + organosilicone penetrant (200mL/100L)	Spray plants up to 4m high. Trees growing form large lignotubers may not be controlled.
	Hawthorn (<i>Crataegus Leavigata</i>)	NSW only	10g + 200mL Glyphosate 360	Spray to point of run off.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 9 of 26

SITUATION	WEEDS CONTROL	STATE	RATE PER 100 L HAND GUN OR KNAPSACK Always add a non-ionic surfactant unless otherwise specified	CRITICAL COMMENTS
Native Pastures ** Right of ways, Commercial and Industrial Areas, Domestic and Public Service Areas	Lantana (<i>Lantana camara</i>)	NSW, Qld only	10g + 200mL Glyphosate 360	Ensure thorough coverage and penetration of spray into the bush. Apply to plants up to 2m tall
	Privet (<i>Ligustrum spp.</i>)			Apply to bushes up to 3m high Ensure thorough coverage. If plants are not adequately covered plants may not be controlled.
	St. Johns Wort (<i>Hypericum perforatum</i>)	NSW, Vic, SA, WA only		Always add a non-ionic surfactant at the rate of (100mL/100L). Spray to wet all foliage but not to cause run-off.
	Sweet Briar (<i>Rosa rubiginosa</i>)	NSW, Vic, Tas, SA only		Do not apply after leaf fall has commenced or after the end of February. Spray foliage to point of run-off
	Tree of Heaven (<i>Ailanthus atissima</i>)	NSW only		

** LEGUMES IN THE PASTURE WILL BE DAMAGED.

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Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 10 of 26

(Text appearing above this line does not form part of the leaflet)

ESTABLISHED PASTURES AND PASTURE RENOVATION

Directions for Use

RESTRAINTS:

- DO NOT spray if rainfall is expected within 4 hours.
- DO NOT store the prepared spray for more than 2 days
- DO NOT store tank mixes with other products
- DO NOT apply to newly sown pastures as severe damage may result
- DO NOT use on crops grown for pasture seed
- DO NOT apply to weeds under stress or that are not actively growing

SITUATION	WEED CONTROL	STATE	RATE (g/ha)	CRITICAL COMMENTS
Established Pasture Tolerant Grass species: Perennial phalaris and Perennial Cockfoot (Stands must be older than 1 year) OR Pasture Renovation Use to reduce weeds in established pastures before sowing a new pasture the following season	Annual Clover (<i>Trifolium spp.</i>)	All states	5g	Apply before flowering
	Annual Medics (<i>Medicago spp.</i>)	NSW, Vic, SA, Tas, WA only		For best results apply before flowering
	Cape Tulip (<i>Homeria spp.</i>) One and two leaf			Apply at bulb exhaustion usually during July/early August. Repeat application may be required to obtain control

CROPS	WEED CONTROL	STATE	RATE PER (g/ha)	CRITICAL COMMENTS
ESTABLISHED PASTURES TOLERANT GRASS SPECIES – Perennial phalaris and Perennial Cocksfoot (Stands must be older than 1 year) OR PASTURE RENOVATION	Dock (<i>Rumex spp.</i>)	All states	5g – seedlings 10g - established	For best results apply in spring prior to bolting
	Doublegee (<i>Ernex australis</i>)	WA only	5 or 10 g	Use the higher rate on dense infestations. Apply up to the 6 leaf stage.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 11 of 26

Use to reduce weeds in established pastures before sowing a new pasture the following season (Cont)	Erodium/Starkbill Wild Geranium (<i>Erodium spp.</i>)	NSW, Vic, SA, Tas only		Use the higher rate on dense infestations. Apply before flowering
	Onion Grass/Guildford Grass (<i>Romula rosea</i>)	NSW, Vic, Tas, SA, WA only	15g	Apply at bulb exhaustion usually late June/July before the onset of browning off caused by Helminthosporium fungus. If mixing with Glyphosate use 10g/ha
	Paterson's Curse/Salvation Jane (<i>Echium plantagineum</i>)	All States	10 to 15g	Use the lower rate on small plants and the higher rate before bolting/flowering
	Ragwort (<i>Senecio jacobaea</i>)	NSW, Vic, SA, Tas only	15g	Apply at the rosette to cabbage stage when plants are actively growing
	Sorrel (<i>Rumex acetosella</i>)	NSW, Vic, SA, Tas, WA only	5g – seedlings 10g – established	For best results apply in spring before seed heads appear.
	Soursob (<i>Oxalis pes-caprae</i>)		5 or 10g	For best results apply before flowering. Use the higher rate on dense stands.
	Wild Garlic (<i>Allium vineale</i>)		15g	Apply at bulb exhaustion usually during July early August. Repeat application may be required to obtain control.

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WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS – BRUSH APPLICATIONS, ESTABLISHED PASTURES AND PASTURE RENOVATION

Chemforce Metsulfuron 600 WG Herbicide is a selective herbicide which is rapidly absorbed by root and leaves.

- Always add a surfactant/wetting agent
- Best results are achieved when:
 - 1) Application is made to actively growing plants which are not stressed by any factors such as dry weather conditions, water logging etc.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 12 of 26

(Text appearing above this line does not form part of the leaflet)

- 2) Plants to be treated are thoroughly covered. This is essential to achieve maximum herbicide uptake.
 - Regrowth may occur if the product is applied when plants are stressed or if complete spray coverage is not achieved. If regrowth does occur, re-treatment at the rates on this label is recommended. For blackberries re-treatment should only be undertaken if plants are at least 1 meter tall. This may not be until 2 years after the initial application. Legumes will be removed from pasture if over sprayed with Chemforce Metsulfuron 600 WG Herbicide.
 - Legumes are extremely sensitive to Chemforce Metsulfuron 600 WG Herbicide and will be removed from the pasture if over sprayed.
 - Introduced grass species may be severely damaged if over sprayed.
 - Application to weeds that are not actively due to adverse conditions may result in weeds only being stunted or suppressed.
 - Some grasses will be damaged in pasture sprayed with this product and biomass production may be reduced for several months.
 - If weeds have been previously sprayed with other herbicides or if the weeds have been burned or slashed ensure 2 years have elapsed before treating with Chemforce Metsulfuron 600 WG Herbicide.
 - It is recommended that this product not be applied to bushes bearing mature blackberries due to collection of blackberries for food purposes.
 - Some temporary yellow and some stunting may occur when used on Perennial Phalaris and/or established Perennial cocksfoot.
 - **ALL** grasses and legumes can be damaged and/or removed by a Chemforce Metsulfuron 600 WG Herbicide/Glyphosate mixture.
 - The following weeds will not be controlled: Barley grass (*Hordeum leporinum*), Broome grass (*Bromus unioloides*), Silvergrass (*Vulpia spp.*), Winter Grass (*Poa annua*).
 - Best results will be achieved if weeds are allowed to recover from grazing prior to herbicide application to allow for adequate uptake of the product. Sorrel and Docks particularly require new leaf growth.

INSTRUCTIONS SPECIFIC TO ESTABLISHED PASTURES AND PASTURE RENOVATION

- Some sorrel seedlings may germinate after the break the following year.
- Ungerminated clover will not be affected but seed set of clover in the year following application will be significantly reduced. If seed banks are not large, it may be necessary to re-sow clover.
- For Pasture topping situation this product may be mixed with glyphosate but ensure crop rotation recommendation are observed. Refer to the Direction for use Target weed on each product label.

Spray Preparation

Chemforce Metsulfuron 600 WG Herbicide is dry flowable granule which must be mixed with clean water. Always add a wetting agent/surfactant (See "Use of surfactant/Wetting agent" below)

1. Partially fill the spray tank with water
2. With the agitation system engaged, add the required amount of product (as per Direction for Use Table) to the tank using only the measuring device provided.
3. Add the remainder of the water
4. Always maintain agitation to keep the product in suspension. If the spray solution is allowed to stand thoroughly re-agitate before using

Use of surfactant/wetting agent

Chemforce Metsulfuron 600 WG Herbicide alone – it is important that surfactant/wetting agent is **ALWAYS** used with this product. If no specific wetting

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 13 of 26

(Text appearing above this line does not form part of the leaflet)

agent/surfactant is recommended in the directions for use table use a non-ionic surfactant (100%) at 100mL/100L of final spray volume.

Chemforce Metasulfuron 600 WG Herbicide tank mixed with Glyphosate – Use a non-ionic surfactant when mixing with glyphosate herbicide. In some tank mix situations the use of organosilicone penetrant (eg Pulse) is recommended. The recommendation must be strictly followed in order to achieve adequate weed control.

Gas gun applications – An organosilicone penetrant (eg Pulse) should be added at the rate of 10mL/5L or 200mL /100L of final spray volume. Where a mineral spray oil spray is recommended use 1L/100L of final spray volume (ie: 1%volume/volume). A non-ionic surfactant should still be used with this mixture. Always read the instructions on the companion product label when tank mixing.

Application Equipment

Chemforce Metsulfuron 600 WG Herbicide may be applied by air, handgun, boom spray or gas gun according to the Directions For Use Table.

Handgun- Ensure complete and uniform coverage of all canes and foliage. Pressure of 550-750 KPa (80-100psi) are recommended depending on size of bushes and target species. As an example:

Use No 4 or 5 spray nozzle for individual bushes or broadleaf weeds less than 1m high. Use No 5 or 6 spray nozzle for bushes 1 -2 m high and No 7 or 8 spray nozzle for large bushes 2-3 metres high or for bushes with a large diameter. When using 3g Chemforce Metsulfuron 600 WG Herbicide + 400mL Glyphosate 360 Glyphosate Herbicide pressure of greater than 800 kPas should be used to assist penetration.

NOTE: for blackberry regrowth use the large spray nozzle / high volume with as wide a cone settling as possible. Use even, side by side spray pattern moving from the base to the top of the bush. For blackberries it is important that Runners at the side and top of the bush are treated and that spray penetrates larger bushes to wet the foliage and canes.

Boom Spray – Ensure the boom is properly calibrated to a constant speed or rate of delivery for thorough coverage and uniform spray pattern. Fan nozzles using pressure of 240 to 280 KPa are recommended. Adjust the boom height to ensure correct spray overlap. Apply in minimum of 150L prepared spray per hectare. Increase to 200L/ha or more for dense stands.

Gas Gun – Ensure thorough coverage. The use of a suitable dye is recommended to allow the operator to see which plants have been treated.

Aerial Application-(by helicopter only) Use properly calibrated helicopter using the half overlap opposite pass technique. Apply a minimum of 100L/ha on blackberries and 60L/ha on Mimosa pigra up to maximum of 200L prepared spray per hectare. Use a VMD of 300 microns. High temperatures and/or low humidity may cause excessive evaporation of droplets and may reduce results. Where bushes are large or terrain is steep, higher water volumes are necessary to ensure adequate coverage. Avoid spraying in conditions which favour temperature inversions or in still conditions. Turn off boom when passing over creeks, dams or waterways. Avoid spraying where drift can move onto crop areas that are likely to be planted to crops and not target pastures as injury may occur. DO not apply when temperatures exceeds 30°C (Except when treating M Pigra).

Tank mixes with Glyphosate Herbicide

In certain situations such as the presence of harder to kill species or follow up treatment situations a tank mix with Glyphosate may provide improvement weed control (see directions for use table).

Compatibility

This product is compatible with Glyphosate formulations and commonly used pasture herbicides such as MCPA Ester 2,4-D Amine, dicamba, chloryralid, fluroxypyr

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

and commonly used insecticide such as Chlorpyrifos and omethoate. Always refer to the companion product label for instructions/restrictions.

Crop Rotation Recommendations

Many crop species are sensitive to metsulfuron methyl. The product is broken down in the soil mainly by chemical hydrolysis and to a lesser degree by soil microbes. Other factors which affect breakdown are soil pH, soil moisture and temperature. Breakdown is faster in warm, wet acid soils and slowest in alkali, cold, dry soil. Legumes will be removed from pasture if they are over sprayed with the product.

Other species which are sensitive to metsulfuron methyl are:

Barley, Canola, Cereal Rye, Chickpeas, Faba Beans, Japanese Millet, Linseed, Lupins, Lucerne, Maize, Medics, Oats, Panorama Millet, Peas, Safflower, Sorghum, Soybeans, Sub Clover, Sunflower, Triticale, Wheat, White French Millet.

The area sprayed with Chemforce Metsulfuron 600 WG Herbicide may be replanted to the specified pasture species after the interval in the following table:

Soil pH*	Pasture species	Rate g/ha	Minimum rainfall	Minimum Recrop interval
5.5 and below	Sub Clover ² and Haifa white Clover	5	150mm	12 Weeks
		10		20 Weeks
		15		20 Weeks
	Cockfoot and Phalaris	5		8 Weeks
		10		8 Weeks
		15		16 Weeks
	Perennial Ryegrass and Fescue	5	100mm	16 Weeks
		10	16 Weeks	
		15	150mm	20 Weeks

Soil pH*	Pasture species	Rate g/ha	Minimum rainfall	Minimum Recrop interval
5.5 – 6.5	Sub Clover ² , Haifa, White Clover, Perennial Ryegrass and Fescue	Bioassay ³		
		5,10	175mm	12 weeks
	Cocksfoot, Phalaris	15	Bioassay	
6,6 and above	Cocksfoot and Phalaris	Bioassay ³		

² Sub Clover varieties: Junee, Karidale, Seaton Park, Trikkala

³ Tolerance of species should be determined on a small scale before sowing commercial areas

* Soil pH is determined by laboratory analysis using 1:5 water suspension method.

For rates higher than 15g/ha the following applies:

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 15 of 26

(Text appearing above this line does not form part of the leaflet)

- For soils with a pH below 7 (1.5 soil:water method) a minimum of 12 months should elapse before over sowing treated areas with grasses or legumes. It is suggested that a small area of oversown 1-2 months prior to the planned time to check for possible harmful residues.
- For soils with pH greater than 7 DO NOT replant until a company representative has been contacted.

APPLICATION IN WINTER CEREAL CROPS

DIRECTIONS FOR USE:

Restrains: DO NOT apply to crops under stress

DO NOT spray if rainfall is expected within 2 hours

DO NOT store the prepared spray for more than 2 days

DO NOT store tank mixes with other products.

DO NOT apply to crops before the three leaf stage when used post emergent.

DO NOT use on flood or furrow irrigated crops.

Post Crop and Weed Emergence by Ground and Aerial Application – Chemforce Metsulfuron 600 WG Herbicide Alone

CROPS	WEEDS CONTROL	STATE	RATE (g/ha)	CRITICAL COMMENTS
Barley, Cereal Rye, Triticale, Wheat	African Turnip Weed (<i>Sisymbrium thellungif</i>)	Qld only	5	Apply before the 6 leaf stage

CROPS	WEEDS CONTROLLED	STATES	RATE (g/ha)	CRITICAL COMMENTS
Barley, Cereal, Rye, Triticale, Wheat	Amsinckia/Yellow burweed <i>Amsinckia</i> spp.	WA only	5	Use the higher rate for heavy weed pressure or for larger weeds.
		NSW, VIC, Tas, SA only	5 or 7	
	Ball Mustard (<i>Neslia paniculata</i>)	SA only	5	
	Boggabri Weed/Dwarf Amaranth (<i>Amaranthus macrocarpus</i>)	Qld only	7	Apply at cotyledon to 10cm in height or diameter
	Colomba Daisy (<i>Pentzia suffruticosa</i>)	SA only	5	
	Cape Tulip (<i>Homeria</i> spp.)	WA only	5	
	Charlock (<i>Sinapsis arvensis</i>)	NSW, Vic, Tas, SA only	5	
	Chickpeas (volunteer) (<i>Cicer arietinum</i>)	Qld, NSW, Vic, SA only	5	
	Chickweed (<i>Stellaria media</i>)	NSW, Vic, Tas, SA only	5	
	Chicory (<i>Cichorium intybus</i>)	Qld only	5	
	Clover (Subterranean) (<i>Trifolium subterraneanum</i>)	All states	5	
	Common Sowthistle (<i>Sonchus oleraceus</i>)	Qld, NSW, Tas, Vic only	5	Apply up to the 4 leaf stage
	Cutleaf Mignonette (<i>Reseda lutea</i>)	Tas, SA only	7	Spray large actively growing plants up to the early flowering stage, Plants which emerge after spraying may not be controlled

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 16 of 26

(Text appearing above this line does not form part of the leaflet)

	Deadnettle (<i>Lamium amplexicaule</i>)	All states	5	
	Denseflower Fumitory (<i>Fumaria densiflora</i>)	NSW, SA only	5	
	Dock (Broadleaf) (<i>Rumex obtusifolius</i>)	WA only	5	

CROPS	WEEDS CONTROLLED	STATES	RATE (g/ha)	CRITICAL COMMENTS
Barley, Cereal Rye, Triticale, Wheat (cont.)	Dock (broadleaf) (<i>Rumex obtusifolius</i>)	Qld, NSW, Vic, Tas, SA, only	5 to 7	Use the higher rate where weed pressure is high
	Faba Beans (<i>Vicia faba</i>)	Vic, SA only	5	Apply after the 3 node stage
	Field Peas (<i>Pisum sativum</i>)	Vic, Tas, SA, WA only	5	
		NSW only	7	
	Hare's Ear/Treacle Mustard (<i>Conringia orientalis</i>)	Vic only	5	Apply before the 5 leaf stage
	Hogweed/Wireweed (<i>Polygonum aviculare</i>)	WA only	5	Apply before the 4 leaf stage
		NSW, Vic, Tas, SA only	5 or 7	Apply before the 4 leaf stage. Use the higher rate when weed populations are dense and majority of weeds are 4 leaf
		Qld only	7	Apply when weeds are cotyledon to 3 leaf.
	Indian Hedge Mustard (<i>Sisymbrium orientale</i>)	All States	5	Heavy populations and or those suffering from moisture stress may not be completely controlled. A tank mix with MCPA is recommended.
	Lincoln Weed (<i>Diploaxis tenuifolia</i>)	SA only	7	Apply from late winter to early spring. Plants must be actively growing. Plants emerging after spraying may not be controlled.
	Lupins (<i>Lupinus albus</i>)	NSW, Vic, SA, WA only	5	
	Mallee Catchfly (<i>Silene apetala</i>)	SA only	5	
	Medics (<i>Medicago spp.</i>)	All states	5	
	New Zealand Spinach (<i>Tetragonia tetragonoides</i>)	Qld only	7	Apply before the 4 leaf stage.
Parthenium Weed (<i>Parthenium hysterophorus</i>)	Qld only	5 to 7	Apply the lower rate before the 4 leaf stage and the higher rate at the 4 leaf to rosette stage.	
Paterson's Curse/Salvation Jane (<i>Echium plantagineum</i>)	WA, Tas only	5		
	NSW, SA only	5 to 7	Use the higher rate for large weeds or heavy weed populations.	

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 17 of 26

(Text appearing above this line does not form part of the leaflet)

CROPS	WEEDS CONTROLLED	STATES	RATE (g/ha)	CRITICAL COMMENTS
Barley, Cereal Rye, Triticale, Wheat (cont.)	Prickly Lettuce (<i>Lactuca serriola</i>)	Qld, Vic, Tas, SA only	5 or 7	Use the higher rate for large weeds or heavy weed populations.
	Prickly Lettuce (<i>Lactuca serriola</i>)	WA only	5	
	Red Pigweed (<i>Portulaca oleracea</i>)	Qld only	5	Apply before the 6 leaf stage
	Red Pigweed (<i>Portulaca oleracea</i>)	Qld only	7	Apply this rate when weed populations are dense and majority of weeds are 6 leaf stages.
	Rough Poppy (<i>Papaver hybridum</i>)	NSW, Vic, Tas, SA only	5	
	Salt bush (<i>Antriplex meulleri</i>)	Qld only	5 or 7	Use the lower rate at the 4 leaf stage and the higher rate at the 4-6 leaf stage
	Shepherds Purse (<i>Capsella bursa-pastoris</i>)	NSW, Vic, Tas, SA only	5	
	Skeleton Weed –Suppression only (<i>Chondrilla juncea</i>)	NSW, Vic, SA only	7	
		WA only	5	
	Slender celery (<i>Apium leptophyllum</i>)	Qld only	5	
	Smallflower fumitory (<i>Fumaria parviflora</i>)	SA only	5	
	Sorrel (<i>Rumex acetosella</i>)	NSW, Vic, Tas, SA, WA only	5	Some regeneration from underground roots and new germinations may occur late in the season
	Spiny Emex/Doublegee Three Cornered Jacks (<i>Emex australis</i>)	WA only	5	
		Qld, NSW, Vic, Tas, SA only	5 or 7	Use the higher rate under heavy weed pressure
	Soursob (<i>Oxalis pes-caprae</i>)	NSW, Vic, Tas, SA, WA only.	5	Apply after majority of soursobs have emerged and are actively growing.
Stagger weed (<i>Stachys arvensis</i>)	All States	5		
Storksbill/Wild Geranium (<i>Erodium spp.</i>)	Vic, Tas, SA, WA only	5		

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 18 of 26

CROPS	WEEDS CONTROLLED	STATES	RATE (g/ha)	CRITICAL COMMENTS
Barley, Cereal Rye, Triticale, Wheat (cont.)	Turnipweed (<i>Rapistrum rugosum</i>)	All states	5	
	Volunteer Sunflower (<i>Helianthus annuus</i>)	Qld only	5 or 7	Use the lower rate at the cotyledon to 4 leaf stage and the higher rate at the 4-8 leaf stage
	Volunteer Sunflower (<i>Helianthus annuus</i>)	NSW only	7	Apply at the cotyledon to 8 leaf stage
	Wild/Crow Garlic (<i>Allium vineale</i>)	Vic, Tas only	7	Apply at the 1-2 leaf stage
	Wild turnip (<i>Brassica tournefortii</i>)	All states	5	

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

WITHOLDING PERIOD – NOT REQUIRED WHEN USED AS DIRECTED

MIXTURE – POST CROP AND WEED EMERGENCE BY GROUND AND AERIAL APPLICATION

CROP	WEEDS CONTROLLED	STATES	RATE (g/ha)	CROP STAGE AT APPLICATION	CRITICAL COMMENTS
Barley, wheat	Capeweed (<i>Arctotheca calendula</i>)	SA only	5 + 550mL Terbutryn	3 leaf to early tillering (Zadocks 13-21)	Apply when weeds are 2-6 leaf
		NSW only	5g + 850mL Tebutryn	3 leaf to early tillering (Zadocks 13-21)	Apply when weeds are 2-6 leaf
Barley, Cereal Rye, Triticale & Wheat	Capeweed (<i>Arctotheca calendula</i>)	NSW, Vic, SA, WA only	5g +1L Agrtyne	3 leaf to early tillering (Zadock 13-21)	Apply when weeds are 2 to 6 leaf
		WA only	5g +750mL Brominil M	3 leaf to full tillering (SA, WA only) 5 leaf to full tillering (Qld, NSW, Vic, Tas only)	Apply when weeds are up to 6 leaf stage
		Qld, NSW, Vic, Tas, SA only	5g + 1.4 L Brominil M	3 leaf to full tillering (SA, WA only) 5 leaf to full tillering (Qld, NSW, Vic, Tas only)	Apply when weeds are up to 6 to 8 leaf stage.
		WA only	5g + 1.4 L Brominil M		
		Qld, NSW, Vic, Tas, SA only	5g + 2.1L Brominil M		

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 19 of 26

(Text appearing above this line does not form part of the leaflet)

MIXTURE – POST CROP AND WEED EMERGENCE BY GROUND AND AERIAL APPLICATION

CROP	WEEDS CONTROLLED	STATES	RATE (g/ha)	CROP STAGE AT APPLICATION	CRITICAL COMMENTS
Wheat, Barley	Wild Radish (<i>Rhaphanus raphanistrum</i>)	WA only	5g + 250mL Tigrex	Wheat: 3 leaf to late tillering (Zadoks 13-20) Barley 5 leaf to late tillering (Zadoks 15-30)	Apply up to the 4 leaf stage and not more than 10cm in diameter
Wheat, Barley, Cereal Rye and Triticale.	Wild Radish (<i>Rhaphanus raphanistrum</i>)	NSW, Vic, Tas, SA, WA only	5g + 1.1to 1.6 LVE MCPA	5 leaf to commencement of flag leaf (Zadocks 15 -37)	Apply up to 2-3 leaf stage only
Wheat, Barley, Cereal Rye and Triticale.	Saffron thistle (<i>Carthamus lanatus</i>)	NSW, Vic, Tas, SA, WA only	5g + 1.1L to 1.6L LVE MCPA	5 leaf through to commencement of flag (Zadoks 15-37)	Spray young rosettes before leaves become spiny.
	Saffron thistle (<i>Carthamus lanatus</i>)	NSW, Vic, Tas, SA, WA only	5g + 300mL Clopyralid (300g/L)	4 to 5 leaf stage (Zadoks 14-15)	Spray when weeds are young and actively growing. DO NOT apply Clopyralid to a cereal crop if field peas are to be sown the following season unless cereal stubble is to be burnt.
	Variegated Thistle (<i>Sylibum marianum</i>)	Tas only*	5g + 1.5L 2,4-D Amine (500g/L)	5 leaf to early tillering (Zadoks 15-21)	Apply to weeds at the seedling to rosette stage.
		NSW only	5g + 700mL to 1.7L 2,4-D Amine (500g/L)	Apply after the first node can be felt at the base of the tiller and before swelling of the head can be felt in the tiller.	Apply to weeds at the seedling to rosette stage. Use the lower rate on seedling weeds and the higher rate on well developed weeds.
		Qld only	5g + 1.1L 2,4-D Amine (500g/L)	Mid tillering to before boot (Zadocks 23-39)	Apply to weeds at the seedling to rosette stage.
NSW, Vic, Tas, SA, WA only		5g + 840mL LVE MCPA Amine	Apply from 5 leaf through to commencement of flag leaf (Zadoks 15-37)	Spray at pre-cabbage stage.	

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 20 of 26

CROP	WEEDS CONTROLLED	STATES	RATE (g/ha)	CROP STAGE AT APPLICATION	CRITICAL COMMENTS
Wheat	Slender thistle (<i>Carduus tenuiflorus</i>)	NSW, Vic, Tas, SA, WA only	5g + 2.1L LVE MCPA	Apply from 5 leaf through to commencement of flag leaf (Zadoks 15 -37)	Moderately susceptible. Spray young rosettes
Wheat, Barley, Cereal, Rye, Triticale		NSW only	5g + 1L to 1.7L 2,4-D Amine (500g/L)	Apply after the first node can be felt in the base of the tiller and before the swelling of the head can be felt in the tiller	Apply to weeds at the seedling to rosette stage. Use the lower rate on seedling weeds and the higher rate on well developed weeds.
	Slender thistle (<i>Carduus tenuiflorus</i> and <i>C. Pycnocephalus</i>)	Tas only*	5g + 1.7L 2,4-D Amine (500g/L)	5 leaf to early tillering (Zadoks 15 – 21)	Apply to weeds at seedling to young rosette stage.
Wheat, Barley & Triticale	Black bindweed/Climbing buckwheat (<i>Polygonum convolvulus</i>)	Qld, NSW only	5 or 7 g + 1L Tordon 242	Apply from early tillering (when the main shoot has 4 to 5 leaves plus 2 or more new tillers have formed) to start of jointing (first node)	For best control apply at early tillering as this weed becomes more difficult to control as it becomes larger.

- In Tasmania 2,4 D can only be applied from 15 April to 15 September to minimise damage to grapevines through spray or vapour drift.

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

WITHHOLDING PERIOD

Chemforce Metsulfuron 600 WG Herbicide alone, Chemforce Metsulfuron 600 WG Herbicide + Glyphosate 360 - NOT REQUIRED WHEN USED AS DIRECTED.

Mixtures with MCPA, Tordon 242, Terbutryn, 2,4-D - DO NOT CUT OR GRAZE FOR STOCK FOOD FOR 7 DAYS AFTER TANK MIX APPLICATION.

Mixtures with Diuron Flowable - DO NOT CUT OR GRAZE FOR STOCK FOOD FOR 3 DAYS AFTER TANK MIX APPLICATION.

Mixtures with Brominil M - DO NOT CUT OR GRAZE FOR STOCK FOOD FOR 14 DAYS AFTER TANK MIX APPLICATION.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

CHEMFORCE METSULFURON 600 WG HERBICIDE AND MIXTURE WITH GLYPHOSATE FALLOW/PRE-PLANT KNOCKDOWN

CROP	WEEDS CONTROLLED	STATES	RATE (g/ha)	CROP STAGE AT APPLICATION	CRITICAL COMMENTS
Wheat	Refer to Post Crop and Weed Emergence Section of this label and Glyphosate 450 Directions for Use	All states Except WA	5 or 7 g + Glyphosate at labelled rates	Refer to Post Crop and Weed Emergence Section of this label and Glyphosate Directions for Use	DO NOT apply at less than 10 days before sowing as crop injury may occur, particularly if conditions are dry and cold. Apply when weeds are actively growing. Refer to critical comments of both labels. Use the appropriate rate of each product for the target weed.
		WA only	5g + Glyphosate at labelled rates		
Barley, Cereal Rye or Triticale.		All States except WA	5 or 7 g + Glyphosate at label rates		DO NOT apply at less than 6 weeks before sowing as crop injury may occur, particularly if conditions are dry and cold. Apply when weeds are actively growing. Refer to critical comments and General Instructions of both labels. Use the appropriate rate of each product for the target weed.
		WA only	5g + Glyphosate at labelled rates		

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

WITHHOLDING PERIODS:

CHEMFORCE METSULFURON 600 WG HERBICIDE, CHEMFORCE METSULFURON 600 WG HERBICIDE + GLYPHOSATE
- NOT REQUIRED WHEN USED AS DIRECTED.

GERNERAL INSTRUCTIONS – CEREAL CROPS

Chemforce Metsulfuron 600 WG Herbicide is a selective herbicide which can be used in Cereal crops at the early post emergence stage of the crops (3 leaf to before booting stage). It may also be applied before planting the crop ie pre-plant. Best results are obtained if weeds are small (no larger than 5cm in height or diameter) and actively growing. To achieve good weed control, it is preferable that rainfall wets the soil to a depth of 5 to 7.5cm

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

Page 22 of 26

within 4 weeks of application. If application is not made when conditions and weed growth are optimum, results may be slow to appear and some weeds may be suppressed or stunted.

For post emergent application, the product will remain in the soil for a period of time. The soil persistence will depend on environmental conditions such as soil, pH, moisture, and temperature and soil organic matter. Breakdown is faster in warm, wet acid soils and slowest in alkaline, cold, dry soils. This product does NOT provide acceptable residual control.

Crop Safety

Do not apply to the wheat varieties Miling, Jacup, King or Harrier.

Do not apply to crops under sown with legumes as legumes will be seriously affected by the product.

Should the crop have been treated with another sulfonylurea herbicide eg chlorsulfuron, consult your local representative or Department of Agriculture before application of CHEMFORCE METSULFURON 600 WG HERBICIDE as crop injury may occur.

Do not apply to crops that are stressed by any factor such as adverse environmental conditions, water logging, drought, frost, poor nutrient status, extreme acid or alkaline soil conditions, insect or nematode damage. Crop injury may occur if the product is applied to these crops. If the crop is stressed after application of the herbicide crop yellowing and slow growth may occur but the final yield is normally unaffected as the crop will recover. Application to soils with pH 5.5 or less may result in some crop retardation, especially if the crop is stressed.

APPLICATION EQUIPMENT

For control of weeds in winter cereal crops the product may be applied by ground or air.

Ground spraying:

Ensure the boom is properly calibrated to constant speed or rate of delivery for thorough coverage and uniform spray pattern. Avoid overlapping and shut off boom while starting, turning, slowing or stopping as injury to the crop may occur. Apply in a minimum of 50L prepared spray/ha.

Aerial Application:

Apply in a minimum of 20L/ha. Application in higher water volumes may improve weed control reliability. Avoid spraying in conditions which favour temperature inversions, still conditions, or in winds likely to cause drift onto sensitive crops or fallow areas to be planted to sensitive crops. Turn off boom when passing over creeks, dams or waterways.

The use Micron air equipments is not recommended as the fine droplets emitted may lead to spray drift.

Use of Surfactant/wetting agent:

Always add a non-ionic surfactant/wetting agent at the rate of 0.1% (active constituent) of final spray volume. The use of spraying oils is NOT recommended.

NOTE: DO NOT add a surfactant/wetting agent when tank mixing with terbutryn or diuron.

Compatibility

Chemforce Metsulfuron 600 WG Herbicide is compatible with most commonly used broadleaf herbicides including:

MCPA Amine, Diuron Flowable, 2,4-D Amine, Agtryne, Broadstrike, Brominil M, Eclipse, Terbutryn, MCPA Ester, LVE MCPA, Jaguar, Tigrex, Tordon 242, Tordon

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012**Page 23 of 26**

(Text appearing above this line does not form part of the leaflet)

75D, Metribuzin, Lontrel, Dicamba, Fluroxypr 200, Glyphosate.

The product is also compatible with commonly used insecticides such as chlorpyrifos and ormethoate. Some temporary crop yellowing may occur with these mixtures. Other mixtures should be tested on a small scale before large areas are treated.

NOTE: The compatibility of Chemforce Metsulfuron 600 WG Herbicide with grass herbicides varies between products and weed species (refer table below) DO NOT mix with Mataven 100.

	Biological compatibility	Biological compatibility	Biological compatibility
	Wild oats	Annual ryegrass	Phalaris
Puma	Yes		No
Diclofop methyl	Refer to notes on Chemforce Metsulfuron/Diclofop Methyl based products or		-
Tristar	Chemforce metsulfuron/Tristar mixtures		No
Mataven 100	No		-

Notes on Chemforce Metsulfuron/Diclofop methyl or Chemforce Metsulfuron/Tristar mixtures:

- a) Some reduction in grass weed control can be expected
- b) In heavily weed infested areas control may be inadequate (Victoria and Tasmania only)
- c) Significant reduction in grass weed control should be expected (SA only)
- d) Mixtures of Chemforce Metsulfuron/Diclofop methyl or Chemforce Metsulfuron/Tristar not recommended in WA as these mixtures will result in significant reduction in grass weed control and/or crop damage.

Spray Preparation

The product is a dry Flowable granule which must be mixed with clean water:

1. Partially fill the spray tank with water
2. With the agitation system engaged add the required amount of product (as per Direction for Use Table) to the tank using only the measuring device provided.
3. Add the remainder of the water
4. Always maintain agitation to keep the product in suspension. If the spray solution is allowed to stand, thoroughly re-agitate before using. If tank mixing with another product, ensure Chemforce Metsulfuron 600 WG Herbicide is in suspension before adding the other product to the tank. If using in conjunction with liquid fertilizers, slurry the product in water before mixing the slurry into the liquid fertiliser. Do not add surfactants and check with the Department of Agriculture on compatibility.

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

(Text appearing above this line does not form part of the leaflet)

CROP ROTATION RECOMMENDATIONS

Many crop species are sensitive to metsulfuron methyl. The minimum recropping intervals are given in the table below. DO NOT rotate crops other than those listed below to land previously treated with Metsulfuron methyl. It is advisable to determine crop tolerance on a small scale before sowing large areas.

Minimum Recropping Interval				
Soil pH*	10days	6 Weeks	9 Months	14 Months
5.6 – 8.5	Wheat	Barley, Cereal Rye, Triticale	Canola, Chickpeas, Faba Beans, Linseed, Lucerne, Lupins, Medics**, Oats, Peas, Safflower, Subterranean Clover**	Japanese Millet, Maize, Panorama white Millet, French Millet, Sorghum, Soybeans, Sunflower
8.6 and above	Tolerance of crops (grown to maturity) should be determined on a small scale, in the previous season, before sowing into larger areas.			

*Soil pH is determined by laboratory analysis using 1.5 suspension method

**Including natural regeneration of medics and subclover

GENERAL INSTRUCTIONS RELATING TO ALL USES FOR Chemforce Metsulfuron 600 WG Herbicide

RESISTANT WEEDS WARNING

GROUP	B	HERBICIDE
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Chemforce Metsulfuron 600 WG Herbicide is a member of the sulfonyl urea group of herbicides. Chemforce Metsulfuron 600 WG Herbicide has the ALS inhibitor mode of action. For weed resistance management Chemforce Metsulfuron 600 WG Herbicide is a Group B Herbicide.

Some naturally occurring weed biotypes resistant to Chemforce Metsulfuron 600 WG Herbicide and Group B 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 Chemforce Metsulfuron 600 WG Herbicide or any other Group B herbicide.

Since the occurrence of resistant weeds is difficult to detect prior to use, Chemforce 2010 Pty Ltd accepts no liability for any losses that may result from the failure of Chemforce Metsulfuron 600 WG Herbicide to control resistant weeds.

Sprayer Cleanup

Many plants species are sensitive to low concentration of Chemforce Metsulfuron 600 WG Herbicide. For this reason it is important to thoroughly clean spray tanks after use as small quantities of product remaining in the tank may cause injury to desirable pastures and crops if the tank is used for other spraying procedures. The following method of tank cleanup should be used:

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 25 of 26

(Text appearing above this line does not form part of the leaflet)

1. Drain tank and flush tank, boom, and hoses for at least 10 minutes.
2. Fill the tank with clean water and add 300mL of household bleach (containing 4% chlorine) per 100L water. Flush through the hoses and boom, allow to stand for 15 minutes with agitation system engaged, then drain.
3. Repeat step 2
4. Nozzles and screens should be removed and cleaned separately.
5. Remove traces of chlorine bleach by rinsing the tank thoroughly with clean water and flushing hoses and boom.

WARNING: DO NOT use chlorine bleach with ammonia it is important that liquid fertilisers containing ammonia be rinsed from the application equipment before adding a chlorine bleach solution. If traces of ammonia are present it may react with the chlorine bleach releasing a gas with a musty chlorine odour which may cause eye, nose, throat and lung irritation.

DO NOT clean equipment in an enclosed area.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND THE ENVIRONMENT

DO NOT contaminate streams, rivers, waterways with chemical or used containers.

DO NOT apply to weeds growing in or over water.

DO NOT spray across open bodies of water.

PROTECTION OF LIVESTOCK

There is a nil withholding period for this product and stock may continue to graze where the product has been used in pasture situations. It is recommended that stock are removed from the pasture for about 3 days to ensure product efficacy. Certain plants such as bracken are naturally toxic to stock. When toxic plants are present, it is recommended that grazing be delayed until complete browning of treated plants has occurred.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Do not apply or drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.

Do not apply under weather conditions or from spraying equipment that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures.

STORAGE AND DISPOSAL

Keep out of reach of children

DO NOT store the prepared spray for more than 2 days.

DO NOT store tank mixes with other products

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 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 containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit

Leaflet.

Chemforce Metsulfuron 600 WG Herbicide

DATE: 31st August 2012

Page 26 of 26

(Text appearing above this line does not form part of the leaflet)

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

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear elbow-length PVC gloves and goggles. If applying by hand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If product on skin, immediately wash area with soap and water. If product in eyes, wash 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 Australia 13 11 26.

MATERIAL SAFETY DATA SHEET (MSDS)

If you require a copy of the MSDS please contact Chemforce 2010 Pty Ltd on (08) 9337 4933

WARRANTY

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability for a particular purpose, express or implied, extends to the use of the product contrary to label instructions or under abnormal conditions.

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