

FORESTRY, BRUSHWEED AND TVC RANGE

0800 220 002 | info@grosafe.co.nz | www.grosafe.co.nz

Vol.2023-11

NEW RELEASE





For selective weed control in forestry and non-selective weed control in industrial situations.

 Improved WDG formulation more stable active ingredient and formulation - improved efficacy

Easier storage and handling.
 Safer for operators

 Higher active ingredient content, 10 kg/ha – less product to handle

 Packed in 10 kg recyclable LDPE bags which makes for ease of rate calculations

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Contact Grosafe on 0800 220 002 or email: info@grosafe.co.nz | www.grosafe.co.nz

Hexagard[®] is a registered trademark of Grosafe

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INTRODUCTION

Grosafe has a range of high quality brushweed and forestry products to give applicators the ability to source an extensive range from one supplier at competitive prices. All products in the range have been carefully developed and tested in the field to ensure high performance levels.

Our forestry, brushweed and TVC package includes the following products:

NON SELECTIVE HERBICIDES

Firstrate® 450 - 20L, 200L, 1000L

A non-selective herbicide for the control of many annual and perennial weeds in a wide range of situations.

Active ingredient: 450g/litre glyphosate as the isopropylamine salt in the form of a soluble concentrate.

Machette® 540 - 20L, 200L, 1000L

A non-selective herbicide for weed control prior to planting crops and pasture, prior to harvesting some crops and for general weed control in horticulture, agriculture and forestry.

Active ingredient: 540g/litre glyphosate as the potassium salt in the form of a soluble concentrate.

Hortcare® Glyphosate 680 WSG - 10kg

A non-residual herbicide for the control of most annual and perennial weeds in Agriculture, Horticulture, Forestry, Drains, Aquatic Areas and a Wide Range of Brush Weeds.

Active ingredient: 680g/kg glyphosate as the mono ammonium salt in the form of a water soluble granule.

Scythe® - 20L

A non- selective contact herbicide for the control of a wide range of broadleaf and grass weeds in orchards, vineyard and non - crop areas.

Active ingredient: 200 g/litre glufosinate ammonium in the form of a soluble concentrate

BROAD SPECTRUM BRUSHWEED HERBICIDES

Reclaim® Brushkiller - 20L, 200L

A herbicide to control a wide range of brushweeds including gorse and broom.

Active Ingredient: 100g/litre picloram as the amine salt and 300 g/litre triclopyr as the butoxyethyl ester in the form of an emulsifiable concentrate.

Knockdown Plus® - 20L

A grass friendly herbicide for the control of gorse, broom, blackberry and other brush weeds.

Active ingredient: 600 g/litre triclopyr as the butoxy ethyl ester in the form of an emulsifiable concentrate.

Zonda Stump Gel - 5kg, 400g, 200g

A ready to use herbicidal gel for direct application onto stump and cut stems; including wild ginger, agapanthus and woolly nightshade trees.

Active Ingredient: 43g/kg picloram as the potassium salt in the form of a gel.

SITE PREPARATION BRUSHWEED HERBICIDES

Reply[®] 200 - 20kg (40 x 500g bags)

A herbicide for the control of gorse and other scrub weeds in pasture and waste areas.

Active ingredient: 200 g/kg metsulfuron methyl in the form of a water dispersible granule.

Reply® 600 - 20kg (40 x 500g bags)

A herbicide for the control of gorse and other scrub weeds in pasture and waste areas.

Active ingredient: 600g/kg metsulfuron methyl in the form of a water dispersible granule.

SELECTIVE GRASS AND BROADLEAF WEED HERBICIDES

GroGard[®] - 20kg (2 x 10kg bags)

A selective herbicide for the control of broadleaf and grass weeds in forestry.

Active ingredient: 900 g/kg terbuthylazine in the form of a water dispersible granule.

Hexogon Plus[®] - 10kg (4 x 2.5kg bags)

A selective herbicide for the control of weeds in Radiata Pine forests.

Active ingredient: 900 g/kg hexazinone in the form of a water dispersible granule.

HexaGard® 750 - 10kg

For selective weed control in forestry and non-selective weed control in industrial situations.

Active Ingredients: 637.5g/kg terbuthylazine plus 112.5g/kg hexazinone in the form of a water dispersible granule.

HexaGard® 750 Extra - 10kg

For selective weed control in forestry and non-selective weed control in industrial situations.

Active Ingredients: 610g/kg terbuthylazine plus 140g/kg hexazinone in the form of a water dispersible granule.

FUNGICIDE FOR FORESTRY

Hortcare® Copper Hydroxide 300 - 10kg

A protectant fungicide for the control of dothistroma pini in Radiata pine forests.

Active ingredient: 300g/kg copper as copper hydroxide in the form of a water dispersible granule.

BORON FERTILISERS

GreenBor - 25kg Organic granular fertiliser.

Active Ingredient: 100g/kg boron in the form of magnesium and calcium borate compounds.

FertiBagra 10G - 800kg bulk bag A fertilizer based on high quality Ulexite (Calcium Sodium Borate).

FertiBagra 15G - 700kg bulk bag A fertilizer based on high quality Ulexite (Calcium Sodium Borate).

MARKER DYE

GroMark RedLine - 1L, 5L

Red marker dye additive to provide a temporary indication of spot or boom sprayed areas.

ADJUVANTS AND ORGANO SILICONE SUPER SPREADERS

EnSpray 99[®] - 5L, 20L, 200L, 1000L

A highly refined narrow distillation range spraying oil which contains emulsifiers to facilitate mixing with water.

Active Ingredient: 821g/L (980ml/L) mineral oil in the form of an emulsifiable concentrate. Unsulphonated residue not less than 99.0%.

Force® Ultra - 1L, 5L, 20L, 1000L

An organo-silicone penetrant for improved penetration and faster uptake of Reclaim[®] Brushkiller, Reply[®] 200, Reply[®] 600, Hortcare[®] Glyphosate 360 SC, Firstrate[®] 45, Hortcare[®] Glyphosate 680 WSG, Machette[®] 540, Scythe[®] and other brushweed herbicides.

Active ingredient: Polyalkyleneoxide Modified Heptamethyltrisiloxane

Hybrid[™]SB - 1L, 4L,18L

A multifunctional non-ionic wetting and buffering adjuvant specially formulated to enhance performance of pesticides, plant growth regulators and foliar fertilisers.

Active ingredient: 560g/l alkylbenzene ether sulfonate solution, 560g/l hydroxypropanetricarboxylate as a soluble solution.

The listed products have been carefully selected and developed by Grosafe Chemicals to enable applicators to achieve safe effective control of an extremely broad spectrum of weeds, in a range of situations, throughout the year.

We welcome enquiry from applicators and end users on our range of products and look forward to being the one stop solution for your brushweed control and forestry programs, saving you money at the same time.

For further information contact:

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A non-selective herbicide for the control of many annual and perennial weeds in a wide range of situations.

ACTIVE INGREDIENT: contains 450g/L glyphosate as the isopropylamine salt in the form of a soluble concentrate





FIRSTRATE® 450



HAZARD CLASSIFICATION: Skin irritation Category 2, Eye irritation Category 2, Hazardous to the aquatic environment chronic Category 2

WARNING: Irritating to skin. and causes serious irritation to eyes. ENVIRONMENT: Toxic to aquatic organisms with long lasting effects.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

QUALIFIED PERSON: A suitably qualified person is required if this product is applied in a wide dispersive manner, used by a commercial ontractor or applied directly into or onto water.

PERSONAL PROTECTION: When mixing wear a face mask or goggles, rubber gloves and overalls. Do not eat, drink or smoke while using. Wash hands and face before meals and after work. Wash protective clothing after use. STORAGE: Store product in original container, tightly closed, in a cool, dry place. Keep out of reach of children, and away from foodstuffs. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing more than 1000 L are subject to requirements for signage, secondary containment and emergency response plans.

Shelf life: When stored appropriately this product should show no significant degradation for two years from date of manufacture. Contact our supplier for further information about the use of any product that is older than this.

SPILLS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Absorb with sawdust, soil etc. Contain and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

DISPOSAL: Avoid contamination of any water supply with chemical or empty container.

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. CONTAINER DISPOSAL: Triple rinse empty container and add rinsate to the spray tank. Recycle container via Agrecovery www.agrecovery.co.nz) or at an approved landfill.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID:

If swallowed drink a glass of water but do not induce vomiting. Get advice if you feel unwell. If on skin wash with plenty of soap and water. If in eyes flush with plenty of water. Remove contact lenses if present after first few minutes and keep rinsing. If irritation persists, get medical attention. If inhaled remove to fresh air and keep at rest in position comfortable for breathing. For advice call a doctor or the National Poisons Centre (0800 764 766).

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622).

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Registered pursuant to the ACVM Act 1997, No P7336. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to HSNO Act 1996, Approval Code HSR 000769. See www.epa.govt.nz for approval conditions.

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.





Batch No:

Date of Manufacture:

FIRSTRATE® and FORCE® are trademarks of Grosafe Chemicals Limited

GENERAL INFORMATION

FIRSTRATE® 450 is a foliar absorbed and translocated herbicide for control of emerged weeds only and is not residual.

FIRSTRATE® 450 can be deactivated by soil particles and hard water containing calcium salts. If hard water cannot be avoided, the addition of Hybrid® SB is recommended.

Plants should be actively growing, free of stress with clean foliage at time of spraying.

FIRSTRATE® 450 and solutions should only be mixed, contained in or sprayed by equipment made from stainless steel, fibreglass, plastic, aluminium, brass and copper.

WARNING: A highly flammable gas may be formed from the contact of this product with galvanised or unlined steel. The effects of **FIRSTRATE® 450** may not be apparent for 3 - 7 days depending on the weather conditions, weed species and the herbicide rate used. Some perennial weeds may not show effects for 14 - 21 days.

RESTRICTIONS: Do not spray if rain is likely within 6 hours. Do not allow spray contact with non target plants as severe injury may occur. **DIRECTIONS:**

- 1. Clean spray tank of previous chemical residues, preferably with a chemical residue remover.
- 2. Half fill spray tank with clean water, add required amount of FIRSTRATE® 450 then fill with clean water.
- 3. Add surfactant where required.
- 4. Agitate well before spraying.
- 5. When tank mixing with other chemicals, add FIRSTRATE® 450 after other water soluble products, but before flowables eg.

Flowable Simazine.

APPLICATION:

Boom equipment:

FIRSTRATE® **450** can be applied in spray volumes of up to 200 litres per hectare using fan nozzles at pressures in the range of 240 - 280 kPa. Boom height should be set so a double overlap of nozzle pattern is achieved at the top of the target plant.

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Aerial equipment:

Forest and non crop areas only. **FIRSTRATE® 450** can be applied by aircraft in spray volumes of up to 100 litres per hectare. Increase spray volumes in hilly terrain to ensure maximum target contact. DO NOT use in intensive horticultural cropping areas.

Handgun and Knapsack:

Ensure a fine spray pattern to give complete coverage.

Mist blower:

Apply to wet foliage surfaces but not to the point of runoff.

Wiper equipment:

Mix only enough for immediate use. Plants must be clean and dry and the wiper fully saturated. Apply up and down slopes for effective applications. High weed density: Reduce speed and apply twice in opposing directions.

CLEANING EQUIPMENT:

All spray equipment including pumps, spray tanks, lines and nozzles, landing gear (aircraft) should be thoroughly washed with water after each day of spraying.

DIRECTIONS FOR USE:

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

SITUATION	CROP	COMMENTS
Drains and waterways		 Do not spray until 75% of the weed is above water level. Do not allow submergence for 6 hours post spraying.
Forestry For control of all listed weeds prior to planting of forest or nursery or around established trees.		 For rates for weeds see Weed Table. Do not allow spray contact with established trees.
Industrial As a knockdown or selective, herbicide for spot spraying		1. Treat weeds as per Weed Table.
Market Gardens As a knock down prior to seeding, transplanting and after harvest clean-up.	All vegetables.	 For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds. Cultivate within 21 days of spraying to ensure control. Do not sow until a satisfactory seed bed has been prepared. An appropriate residual herbicide can be used as a tank mix with FIRSTRATE® 450
Minimum Tillage For total weed control prior to seeding.	Cereal, Pasture and Leguminous crops.	 For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds. To ensure control and avoid respraying newly germinated weeds, work sprayed area by full cultivation or the seeding operation within 3 weeks of spraying. Do not sow until a satisfactory seed bed has been prepared. For improved control of White Clover, tank mix with dicamba 20%ai at 1.5 litres/ha. Observe plant back periods of dicamba for respective crop.
Orchards and vineyards As a knockdown prior to establishment or where plants are 3 years old or older.	Apple, Citrus, Grapevines, Kiwifruit, Pear and Stonefruit	 Use as directed or shielded spray. DO NOT let spray contact any green foliage or new growth. Spray before bloom stage of crop. FIRSTRATE® 450 can be tank-mixed with an appropriate herbicide for residual control.
Pre-Harvest For control of emerged weeds and as a clean-up to enhance harvesting.	Wheat, Barley, Oats and Threshing Peas	 Spray 7–12 days pre-harvest. Grain moisture should be below 30%. Witholding period: 7 days. Do not spray seed crops. Do not spray undersown crop.
Recreational areas For weed control prior to establishment and as a clean-up around established areas.	Lawns, Ornamentals, Parks and Reserves.	 Established plants: Use a directed or shielded spray or with a wiper around plants avoiding any spray contact on green or growing points of plant.

WEED CONTROLLED		APPLICAT	COMMENTS		
	BOOM/ AERIAL L/ha	HANDGUN Vol/100L	KNAPSACK Vol/10L	MIST BLOWER Vol/10L	
Annual weeds Amaranth, Barley Grass, Capeweed, Cleavers, Volunteer Cereals, Spiny Emex, Storksbills, Fumitory, Mintweed, Patersons Curse, Prairie Grass, Ryegrass, Saffron Thistle, Vulpia Hairgrass, Sub. Clover, Wild mustard, Wild Turnip	0.8 -1.6 L	160 ml	16ml	50ml	Wiper: 25% solution Use the high rate on weeds greater than 14 cm across or 14 cm high
Australian Sedge	4.8 L	800 ml	80ml	240 ml	Best results when sprayed in Summer. Do not disturb for 4 weeks post treatment. Wiper: 25% solution.
Barberry	-	800 ml	80ml	240 ml	Best results when sprayed in mid to late summer after flowering to full fruit.
Blackberry	7.2 - 16.0 L	0.8 - 1.2 L	80ml	240 ml	Best results when sprayed mid to late summer after flowering to full fruit. Best results when plants have a full canopy and total leaf coverage achieved. Use higher rate on heavy infestations where total coverage may not be achieved. Regrowth can occur after 1-2 years. Do not disturb treated plants until 8 weeks post treatment.
Boxthorn	-	1L	80ml	_	Apply to actively growing plants (Nov-Apr). Ensure complete coverage of dense thickets. Do not use extra surfactant or treat salt damaged bushes.
Bracken	7.2 L	800 ml	80ml	240 ml	Spray mid Summer to mid Winter when fronds are open. Burning after treatment will help pasture establishment. The addition of Force® Penetrant at 250 ml/100 litres is recommended.
Broom	7.2 L	800 ml	80ml	240 ml	Spray late Spring to early Summer when plants are in full leaf. The addition of Force® Penetrant at 250 ml/100 litres is recommended.
Browntop	2.4 L	400 ml	40ml	120 ml	If plants are greater than 10 cm high, graze or burn then treat regrowth. The addition of Force® Penetrant is recommended at 200ml /100 litres.

WEED RECOMMENDATIONS FOR USE

WEED CONTROLLED			ION RATES		COMMENTS
	BOOM/ AERIAL L/ha	HANDGUN Vol/100L	KNAPSACK Vol/10L	MIST BLOWER Vol/10L	COMMENTS
Buddleja	7.2 L	800 ml	80 ml	-	Spray late Spring to early Summer when plants are in full leaf. The addition of Force® Penetrant at 250ml/100 litres is recommended.
California Thistle	3.2 L	800 ml	80 ml	240ml	Spray plants after flower bud stage. Improved results obtained when thistles are mowed 10 days post spraying.
Couch	2.4 - 4.8 L	800 ml	80 ml	240ml	Spray at early seedhead stage when plants are actively growing. Use the low rate for suppression only. Pre-harvest: Use 3.2 litres/ha. FIRSTRATE® 450 will not control unemerged growth.
Dock	7.2 L	800 ml	80 ml	-	Best results when sprayed Spring/ Summer before seed-heads have formed.
Floating Sweet Grass, Reed Sweet Grass	4.8 L	800 ml	80 ml	240ml	Best results when sprayed in Summer. Do not disturb for 4 weeks post treatment.
Gorse	-	800 ml	-	-	Use Force® Penetrant at 200ml/100 litres. Spray when plants are at early seedhead. Ensure complete coverage. Regrowth may occur after a year. Re-treat if required.
Indian Doab, Mercer Grass (Aquatic)	7.2 L	800 ml	80 ml	-	Best when plants are in the early seedhead stage.
Johnson Grass, Kikuyu, Mercer Grass (Non Aquatic).	4.8 L	800 ml	80 ml	240ml	Best results when plants are in the early seedhead stage.
Nodding Thistle	_	800 ml	80 ml	_	Wiper: 25% solution. A double pass may be required for good coverage. When applying by water ensure plants are actively growing (Oct - Apr) when at least 10 cm of the plant can be wiped. A double pass is recommended and follow-up with spot treatments if necessary.
Old Mans Beard	-	0.8 - 1.6 L	160 ml	_	Apply before the first leaf browns off. Use the higher rate on plants with stems greater than 1cm in diameter. If complete coverage is not possible, cut plants in the winter and treat at the high rate when regrowth is at 0.5 - 1.0 min length.
Pampas Grass, Toetoe	-	0.8 - 1.6 L	160 ml	-	Spray Spring to Autumn. Do not spray flowering plants.
Paspalum	3.2 L	800 ml	80 ml	240ml	Spray when plants are at early seedhead.

WEED CONTROLLED		APPLICAT	ION RATES		COMMENTS
	BOOM/ AERIAL L/ha	HANDGUN Vol/100L	KNAPSACK Vol/10L	MIST BLOWER Vol/10L	
Potato (self-set)	2.4 L	400 ml	40ml	120ml	
Ragwort	4.8 L	800 ml	80ml	_	Ensure adequate leaf area for spray uptake. Plants should be above pasture to avoid non-target contact. Use a double pass for best results. Plants become more palatable to stock after treatment so remove until browning occurs.
Ratstail	4.8 L	800 ml	80ml	-	Use high water volumes (200 litres/ha) in Autumn when foliage is green. Do not disturb treated plants for 21 days post spraying.
Rautahi (Cutty Grass), Rushes, Tall Fescue	4.8 L	800 ml	80ml	240ml	Spray Jan-March. Do not burn or slash for 4 weeks post spraying.
Ring Fern	0.8 - 2.4 L	240 ml	25ml	-	Use the high rate for control. Use 1.0-2.0 litres/ha for Pasture Manipulation.
Ryegrass (Perennial)	1.2 - 2.4 L	-	-	-	Use the low rate only when cultivation is to follow treatment. Use Force® Penetrant at 200ml/100 litres.
Sweet Briar	9.6 L	800 ml	80ml	-	Add Force® Penetrant at 250ml/100 litres. Spray to ensure full coverage: any time from late flowering to early leaf yellowing.
Willow	7.2 L	800 ml	40ml	-	Spray from mid to late Summer. Ensure good coverage.
Yarrow	2.4 - 4.8 L	-	-	-	For best results cultivation should follow treatment. Only use the low rate when a competitive crop is planted after treatment.

ΕCOTOXIC



MACHETTE[®] 540 HERBICIDE

A non-residual, non-selective herbicide for weed control prior to planting crops and pasture, prior to harvesting some crops and for general weed control in horticulture, agriculture and forestry.

ACTIVE INGREDIENT: Contains 540 g/L glyphosate as the potassium salt in the form of a soluble concentrate





MACHETTE[®]540

HSNO CLASSIFICATION: Hazardous to the aquatic environment, chronic, Category 2

ECOTOXICITY:

¥2

Toxic to aquatic organisms, with lasting effects. Do not mix or load near any body of water, avoid spray drift over, or spillage into open water. Avoid contamination of any water supply with chemical or empty container.

QUALIFIED HANDLER: This product must be under the control of an approved handler when applied directly onto or into water. RECORD KEEPING:

Records of use as described in NZS 8409 Management of Agrichemicals, must be kept if using 3L or more of MACHETTE 540 applied directly onto or into water.

PERSONAL PROTECTION: Avoid contact with skin and eyes and breathing spray mist. When using wear waterproof gloves, suitable boots and cotton overalls. Remove protective clothing and wash hands and face thoroughly before meals and after work.

STORAGE: Store product in original container, tightly closed, in a cool, dry place. Keep out of reach of children, and away from foodstuffs. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing more than 1000 L are subject to requirements for signage, secondary containment and an emergency response plan.

Solutions of MACHETTE 540 should be mixed, stored and applied only in stainless steel, aluminium, brass, copper, fiberglass, plastic or plastic lined containers. Do not mix or store this product in galvanized or unlined steel (except stainless steel) containers or spray tanks. MACHETTE 540 or solutions of MACHETTE 540 react with such containers to produce hydrogen gas which may form a highly combustible gas mixture which can flash or explode if ignited.

Shelf life: When stored appropriately this product should show no significant degradation for two years from date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

SPILLS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain spilled product and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb with sawdust, soil or absorbent material and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill. **CONTAINER DISPOSAL:** Triple rinse and add rinseate to the spray tank. Take to an Agrecovery site or burn if circumstances, especially wind direction, permit. Otherwise bury in a suitable land fill.

FIRST AID:

If medical advice is needed, have product container or label at hand. For advice call a doctor or the National Poisons Centre (0800 764 766). IF SWALLOWED: Rinse mouth. Do NOT Induce vomiting. Call a POISON CENTRE or doctor for advice.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING Registered and distributed by:



20 Jean Batten Drive Mt Maunganui POBox 14-450 Tauranga 3141 Tel: 0800 220 002 Email: info@grosafe.co.nz www.grosafe.co.nz Batch No: Date of manufacture: GSMC163/B03 Registered pursuant to the ACVM Act 1997, No P9567. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to HSNO Act 1996, Approval Code: HSR100587. See www.epa.govt.nz for approval conditions

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

 $\mathsf{MACHETTE}^\circ$ and FORCE° are registered trademarks of Grosafe Chemicals

GENERAL INFORMATION

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

MACHETTE® 540 is a broad spectrum, non-selective, non-residual herbicide that is not volatile and may be used in agriculture, horticulture, drains, aquatic areas, forestry and for other uses including general weed control. MACHETTE® 540 is recommended prior to sowing pasture, crops and for the control of a wide range of brush weeds. MACHETTE® 540 is absorbed by plant foliage and green stems. It is inactivated immediately upon contact with the soil and does not provide residual weed control. MACHETTE® 540 moves from the point of foliage or stem contact into the root system controlling the plant above and below the ground. Visible effects may take up to 14 days or even longer depending on growing conditions. These effects are a gradual wilting and yellowing of the foliage which advances to deterioration of above and below ground parts. Apply MACHETTE® 540 only to healthy, actively growing plants with adequate leaves for herbicide uptake. Avoid treating plants that are silt laden or affected by drought, frost, water logging, grazing or previous herbicide application. Rainfall occurring up to 2 hours after application may reduce effectiveness. When Force[®] Penetrant organosilicone is added the rain free period may be reduced to 30 minutes. If MACHETTE[®] 540 is applied to wet plants, efficacy may be reduced due to runoff. After application of MACHETTE[®] 540 a withholding period for grazing stock is not required (except where ragwort is present). However, it is recommended that grazing or cultivating is delayed for 1 day after treatment of annual weeds or 3 days if perennial weeds are present to ensure absorption of MACHETTE® 540. With brush weeds wait for stem dehydration to occur prior to burning or slashing.

RESISTANT WEEDS WARNING.



Resistance to this herbicide could develop from excessive use. The product contains and belongs to the glycine group of herbicides and has the inhibition of EPSP synthase mode of action. Some naturally occurring weed biotypes resistant to this product and other group 9 herbicides may exist through normal genetic variability in any weed population. The resistant weeds can eventually dominate the weed population if these types of herbicides are used repeatedly.

USE RECOMMENDATIONS:

Refer to "Weeds Controlled" section for rates of application.

General Weed Control

Handgun - mix 660ml of MACHETTE® 540 with 100 litres of water (0.66% solution). Knapsack - mix 100ml of MACHETTE® 540 with 15 litres of water.

Small sprayers - mix 6.5ml of MACHETTE® 540 with every 1 litre of water.

Apply to completely wet the foliage but not to run-off.

Brush weed Control - MACHETTE® 540 may be used to control a wide range of brush weeds and woody plants.

Agricultural Areas - MACHETTE® 540 may be used for the control of annual and perennial weeds as directed in agricultural land prior to sowing any edible or non-edible crop or pasture. Where white clover control is required, tank mix with a suitable white clover herbicide and observe recommended waiting periods prior to planting legumes. Cultivation may start from 3 days after spraying perennial weeds and 1 day for annual weeds.

Pasture - Direct (Spot) Application - MACHETTE® 540 is non-selective and may damage or kill any plant in the sprayed area. Apply as a directed low pressure spray. Retreatment and/or pasture improvement may be necessary to restrict seedling re-establishment. Pasture - Selective Wiper Application For the control of erect weeds in pastures.

Pasture Renewal - MACHETTE® 540 may be used to control existing pasture species prior to re-seeding pasture or establishing crops. Pasture Seed head Suppression (Unimproved Pasture) - Use in unimproved pasture to delay onset of flowering and to maintain pasture grasses in a vegetative growth phase. Treat spring pasture at early grass seed head emergence with 180–200ml MACHETTE® 540/ha. Temporary pasture brownout will occur. Do not use Force® Penetrant or any other surfactant. Accurate spray calibration is important. Grazing can be carried out at any time after 3 days from treatment, but for optimum results graze from 21 days after treatment. DO NÕT USE ON RYEGRASS OR OTHER IMPRÓVED PASTURES AS YIELD SUPPRESSION MAY OCCUR. IT IS ADVISABLE NOT TO TREAT MORE THAN 10-15% OF THE FARM IN ANY ONE YEAR. DO NOT USE WHEN SOIL MOISTURE LEVELS ARE INADEQUATE FOR

PASTURE GROWTH FOLLOWING APPLICATION. **Spraying of Silage Before Cutting:** Where paddocks are to be used for cropping after silage, MACHETTE® 540 may be applied before the silage is cut. Use 2.0-2.7 L/ha plus Force® Penetrant 100mL/100 litres of water in 100-200 litres of water per hectare. Use the high rate on perennial ryegrass or if the silage is rank or lodged. Refer to higher label rates on other specific weeds. After spraying wait at least 4 days before cutting. Grass quality is maintained for 7-10 days after the initial planned cutting date, even into the early stages of brown-out.

Spraying of Silage or Hay Paddocks After Cutting - Before spraying ensure that there is at least 5-10 cm of actively growing green leaf on all tillers. Typically, this takes three weeks or more after cutting. Refer to application rates in the table. Always use Force® Penetrant.

Pre-Harvest: Wheat, Barley, Oats, Peas - For wheat, barley and oats - apply 7-12 days prior to harvest when the grain moisture content is less than 30%. Peas - apply 7-14 days prior to harvest when the pods have dried. Use only on peas for threshing. Do not harvest within 7 days after treatment to allow time for the herbicide to translocate into the weed roots. Do not apply to under sown crops including clovers as they may be severely damaged. Do not apply to crops which will be harvested for seed. Use rates up to 2.7 litres/ha depending on the specific weeds to be treated. Avoid treating drought stressed plants.

Orchards/Vines: Citrus, Apples, Pears, Stone fruit, Kiwifruit, Grapevines - Apply as a directed or shielded spray or with wiper equipment. For long term control of annual weeds MACHETTE® 540 may be tank mixed with a suitable residual herbicide. Do not apply near unprotected trees less than 3 years old. Do not allow spray or spray drift to contact any part of stone fruit trees, or green bark, suckers, buds, foliage or fruit of other trees. Do not allow wiper surfaces to contact any part of the trees. Weed foliage coated in copper or calcium based compounds may reduce the activity of MACHETTE® 540.

Market Gardens: MACHETTE[®] 540 can be applied before or after seeding and prior to crop emergence. MACHETTE[®] 540 can be applied prior to transplanting or as a post-harvest clean-up for longer term control of seedling weeds. MACHETTE[®] 540 may be tank mixed with suitable residual herbicides. Use in accordance with the label recommendations for these products.

Asparagus: MACHETTE® 540 can be applied following the final harvest and immediately after removal of all spears but before crop regrowth occurs. Prior to planting or crop emergence. Do not treat emerging spears. In established ferns as a directed or shielded spray or with wiper equipment. Do not allow spray, spray drift or the wiper surface to contact any part of the asparagus plants.

Industrial and Non-agricultural Areas: MACHETTE[®] 540 can be used for the control of annual and perennial weeds as directed. For residual control MACHETTE 540 can be tank mixed with simazine or another suitable residual herbicide. Exercise caution when using residual herbicides prior to planting trees, shrubs or other ornamental plants.

Turf grass and Recreational Areas: Apply before establishing lawns, parks, reserves and ornamentals. MACHETTE® 540 can be applied around the base of established trees as a directed or shielded spray or by wiper equipment. Do not allow spray, spray drift or the wiper surface to contact any part of the tree. In mown areas, allow sufficient re-growth before spraying.

Aquatic Areas: Drains and Waterways: Ensure that 75% of the weed to be treated is above water level or efficacy may be reduced. Following spray application do not submerge the treated plant as this will cause the herbicide to be washed off. Avoid treating silt laden plants.

Forestry: MACHETTE® 540 can be applied for the control of grasses and a wide range of brush weeds. The addition of Force® Penetrant is required for the control of bracken and gorse. Do not allow spray, spray drift or the wiper surface to contact the foliage or green bark of desirable trees as severe injury can occur.

APPLICATION INSTRUCTIONS:

For broadcast boom application flat fan, wide angle nozzles (e.g. 110°) using pressures of 200-280 kPa are preferred. Set boom height to ensure a double overlap of the spray pattern at the top of the weed canopy. Apply in 100-200 litres of clean water per hectare. For orchard application wide angle, even spray nozzles are preferred.

For knapsack or handgun applications adjust equipment to apply a fine spray. Use the minimum spray volume necessary to achieve uniform and complete coverage. Handgun spraying pressures of 1,000-2,000 kPa and No.4 to No.6 spray tips are recommended.

Wiper Application - pre-mix 1 part of MACHETTE® 540 and 2 parts of clean water to prepare a 33% solution. Mix only enough herbicide for immediate needs and allow the wiping area to become fully saturated before commencing. The wiping area must remain moist and clean otherwise reduced results will occur. In heavy weed infestations or when treating perennial weeds such as Californian thistle or multi-crown ragwort, a double pass in opposite directions on the same day will give the best results. As weed density increases, decrease ground speed. Aircraft Application - MACHETTE® 540 may be applied by aircraft in forestry and non-cropping areas only. Aerial application of MACHETTE® 540 is not recommended on cropping land or near desirable plant species as even slight drift may cause severe injury or destruction. Do not apply in gusty or windy conditions or in other conditions conducive to drift, e.g. still air and inversion conditions. **Mist Blower Application** - Use a solution of 200ml of MACHETTE® 540 in 10 litres of water. For the micron attachment increase to 1.3 litres of MACHETTE® 540 in 10 litres of water. Provide complete coverage and spray to we but not to runoff.

Weed	Boom or Aerial L/Ha	Handgun L/100L	Knapsack mL/10L	Mistblower mL/10L	Critical Comment
Barberry	-	0.66	66	200	Apply Jan to April from flowering to late fruit. Where bushes have been cut, regrowth should be 1.5 meters tall before spraying.
Blackberry	6-13	0.66 -1	66	200	Apply to healthy plants from blossom to ripe fruit stage prior to Autumn frosts (Dec to Apr). Only bushes with a well developed canopy of leaves should be treated. Early treatment (Dec. to Jan.) may be preferred in drought prone areas. Leave sprayed blackberry for 40-60 days before burning or slashing and over sow the area. Where treatment has been carried out under marginal conditions some regrowth can be expected within 1-2 years. For aerial application of hard to kill blackberry or where no follow-up pasture management is anticipated, use the higher rate.
Boxthorn	-	0.83	-	-	Apply Nov to Apr to actively growing plants. Avoid salt damaged plants. Spray to ensure complete coverage of dense thickets. DO NOT use additional surfactant as poor results may occur.
Bracken	6 + 250ml Force® Penetrant per 100L (Min 500ml/Ha)	0.66 + 200ml Force [®] Penetrant per 100L	66 + 20ml Force®Penetrant	-	Apply when fronds are unfurled (mid Jan. to June) but prior to frost browning. DENSE VIRGIN BRACKEN WITH HIGH TRASH CONTENT AND LOW LEAF TC ROOT RATIO SHOULD BE BURNT IN SPRING AND THE UNFURLED FROND REGROWTH SPRAYED THE FOLLOWING MARCH TO JUNE.
Broom	6 + 250ml Force® Penetrant per 100L (Min 500ml/Ha)	0.66 + 200ml Force [®] Penetrant per 100L	66 + 20ml Force®Penetrant	200 + 20ml Force®Penetrant	Aerial Application - Best results are obtained when plants are in full leaf. Handgun Application - Apply all year round. Ensure full coverage.
Buddleja	6	0.66	66	-	Handgun - If actively growing treat all year. Aerial - Treat buddleia up to 2 meters high during Feb. to Apr.
Gorse	-	0.66 + 200ml Force [®] Penetrant per 100L	-	-	Apply all year round. Spray to ensure complete coverage.
Old Mans's Beard	-	0.66 - 1.3	130	-	Apply Nov to Mar prior to leaf senescence. Vines too high for complete coverage should be cut at ground level in winter or spring and the regrowth sprayed in Mar when plants are at least 0.5 meters long. Follow-up treatment will be necessary to control seedlings. Use the low rate for small vines.
PampasGrass Toetoe	-	0.66	66	-	Apply Spring-Autumn. Ensure complete coverage. Best results are achieved when applied after flowering.
Ring Fern	0.66 - 2	0.2	23	-	Control: Apply 2 litres/ha in Jan to Apr Pasture Manipulation: Apply 700ml - 1.4 litres/ha Dec to Apr. Use the high rate for dense infestations. Burn 4-6 weeks after treatment and oversow with pasture.
Sweet Briar	8 + 250ml Force® Penetrant per 100L (Min 500ml/Ha)	0.66 + 200ml Force [®] Penetrant per 100L	66 + 20ml Force®Penetrant	-	Apply from late flowering to early leaf yellowing. Best results achieved with full coverage.
Willow	9 - 12 + 250ml Force® Penetrant per 100L (Min 500ml/Ha)	0.66 + 200ml Force [®] Penetrant per 100L		-	Apply from Jan. to Apr. before leaf fall begins. Total spray coverage is essential for best results. Use the high rate for pussy willow control.

WEEDS CONTROLLED - BRUSHWEEDS

WEEDS CONTROLLED - ANNUAL WEEDS

Weed	Boom or Aerial L/Ha	Handgun L/100L	Knapsack mL/10L	Mistblower mL/10L	Critical Comment
Annual Weeds	0.66 - 1.3	0.13	13	40	Use higher rate for larger weeds.
Barley Grass	0.66	0.13	13	40	
Cleavers	1	0.33	33	100	
Rye Grass Short rotation (Annual, Italian, Hybrid) Estab. < 8mths	2 - 2.7 + 100ml	0.66 + 100ml	66 + 10ml	200 + 10ml	Ensure plants are actively growing and have at least 5-10 cm of green leaf. Add Force®Penetrant at all times.
Esido. < ommis	Force [®] Penetrant per 100L	Force [®] Penetrant per 100L	Force [®] Penetrant	Force [®] Penetrant	
Estab. > 8mths	2.7 + 100ml Force® Penetrant per 100L	0.66 + 100ml Force®Penetrant per 100L	66 + 10ml Force®Penetrant	200 + 10ml Force® Penetrant	

Weed	Boom or Aerial L/Ha	Handgun L/100L	Knapsack mL/10L	Mistblower mL/10L	Critical Comment
Australian Sedge	4 Aerial 6	0.66	66	200	Apply from Nov to Mar Where rank growth is present the area should be burnt 12-18 months prior to aerial application to ensure adequate spray coverage.
Brown Top	4	0.66	66	200	Apply to 5 -10cm high actively growing plants. Some regrowth may occur. Longterm control requires a pasture renewal programme utilizing annual crops and repeat applications of MACHETTE 540 before re-establishing perennial pasture.
Californian Thistle	2.7	0.66	66	200	Apply after flower bud development but before autumn browning. To ensure maximum shoot emergence do not cultivate for 6 months prior to treatment. Wiper - a double pass at low speed is recommended in heavy infestations. Mowing thistles 10 days after treatment may assist control. Retreatment may be necessary in the following season.
Couch	2 - 4	0.66	66	200	For suppression use 2 litres/ha, for control use 2.7 - 4 litres/ha when growing conditions are satisfactory. Autumn treatment is preferable. Use the high rate in late spring. Apply to plants with at least 4-5 leaves (at least 10-15 cm leaf length) and active shoot and root growth. Do not cultivate for 6 months prior to application to ensure maximum shoot emergence. Some regrowth may occur. Long term control requires a pasture renewal programme utilizing annual crops and repeat applications of MACHETTE 540 before re-establishing perennial pasture. See the Use Recommendations section for control of couch in a pre-harvest situation.
Chewings Fescue Red Fescue	6 + 100ml Force®Penetrant per 100L	0.66 + 100ml Force®Penetrant per 100L	-	-	Apply to healthy actively growing plants with 10-15 cm leaf length. Spring treatment gives best results. Some regrowth may occur. Long term control requires a pasture renewal programme utilizing annual crops and repeat applications of MACHETTE 540 before re-establishing perennial pasture.
Dock	2.7 - 6	0.66	66	-	Treat plants in spring or summer when actively growing and in full leaf. Use low rate for seedlings and young plants. Use high rate for control of established plants.
Floating Sweet Grass, Reed Sweet Grass	4	0.66	66	200	Apply to actively growing plants when most have reached early seed head.
Indian Doab	6	0.66	66	-	Apply when most plants have reached early seed head.
Johnson Grass	4	0.66	66	200	Apply to actively growing plants.
Kikuyu	4	0.66	66	200	Apply to actively growing plants. Under dense growth conditions mulch and allow at least 10-15 cm of regrowth before treatment. Long term control requires a pasture renewal programme utilizing annual crops and repeat applications of MACHETTE 540 before re-establishing perennial pastures.
Mercer Grass Aquatic Non-aquatic	6 4	1 0.66	100 66	300 200	
Nodding Thistle	4	0.66	66	-	Wiper Application (see Application Instructions). Apply when actively growing when at least 10cm of the weed can be wiped. In heavy infestations a double pass is recommended.
Paspalum	2.7 - 4	0.66	66	200	Use the low rate from Jan to Apr (early seed head) prior to frosts. Use 4 litres/ha on vegetative plants.
Potato (self set)		0.33	33	100	
Prairie Grass Ragwort	4	0.66	- 66	-	Apply when actively growing. Wiper - apply when plants are 10-15cm above the pasture. In heavy infestations a double pass is recommended. Caution: Ragwort plants may become more palatable following spraying and stock should be removed until the treated plants brown out.
Ratstail	3.3	-	-	-	Apply to actively growing plants in Autumn.
Rautahi (Cutty Grass)	4	0.66	66	200	Apply to actively growing plants from Jan to Mar Burning or slashing may take place from 30 days after treatment following brownout. Wiper (Rushes only).
Rushes	4	0.66	66	200	Apply Nov to May.
Ryegrass Perennial	2.7 + 100ml Force [®] Penetrant per 100L	0.66 + 100ml Force [®] Penetrant per 100L	66 + 10ml Force®Penetrant	-	Ensure plants are actively growing and have at least 5 – 10 cm of green leaf. Add Force® Penetrant at all times.
Tall Fescue	4	0.66	66	200	Apply to actively growing plants Jan to Mar.
Yarrow	2 - 4	-	-	-	Apply to plants with 5-10cm of leaf. Cultivate with a minimum of 2 grubbings from 10 days after treatment. Use the 2 litre rate when a competitive crop to yarrow is to be drilled. Use the 4 litre rate when the crop to be drilled is a poor competitor.

WEEDS CONTROLLED - PERENNIAL WEEDS

For wiper see application instructions in directions.

DANGER

KEEP OUT OF REACH OF CHILDREN



HORTCARE® GLYPHOSATE 680 WSG HERBICIDE

A non-residual herbicide for the control of most annual and perennial weeds in agriculture, horticulture, forestry, drains, aquatic areas and a wide range of brush weeds.

> ACTIVE INGREDIENT: Contains 680g/kg glyphosate as the mono ammonium salt in the form of a water soluble granule. Also contains ~4 % tallow alkyl amine ethoxylate.





HORTCARE® GLYPHOSATE 680 WSG



HAZARD CLASSIFICATION:

Serious eye damage 1; Hazardous to the aquatic environment chronic Category 2

TOXICITY

DANGER: May cause serious eye damage.

ECOTOXICITY: Toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container. Handle and apply with care, spray drift may cause severe damage to other desirable plants.

QUALIFIED HANDLER: Where **Hortcare® Glyphosate 680 WSG** is applied onto or into water and the water has the potential to leave the place containing the application area, clauses 62, 63 and 64 of the Hazardous Property Controls Notice apply as if the substance has a hazard classification of hazardous to the aquatic environment acute Category 1.

PERSONAL PROTECTION: When mixing or loading wear overalls, impervious gloves and eye/face protection. Wash hands and exposed skin after work.

STORAGE: Store in original container tightly closed and in a locked, dry, well ventilated area, away from foodstuffs, seeds and fertiliser. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals

(NZS8409). Stores containing more than 1000 L require signage, secondary containment and an emergency response plan.

When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact the supplier for further information about the use of this product if it is older than this.

SPILLS: Wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain spilled material and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled, absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc is unavoidable, contact the local water authority. PRODUCT DISPOSAL: If possible, dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. CONTAINER DISPOSAL: Crush empty packaging and dispose of a suitable landfill. SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: For advice call the National Poisons Centre 0800 POISON (0800 764 766). Have product label or Safety Data Sheet at hand. IF SWALLOWED: Rinse mouth with water. Call the NATIONAL POISONS CENTRE or doctor for advice if person feels unwell. IF ON SKIN: Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation persists. IF IN EYES:, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if person feels unwell.

EMERGENCY RESPONSE: 0800 CHEMCALL (0800 243 622) READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Registered pursuant to the ACVM Act 1997, No P008533. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to HSNO Act 1996, HSR 000219. See www.epa.govt.nz for approval conditions.

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered and distributed by: Grosafe Chemicals Ltd



Grosafe Chemicals Ltd 20 Jean Batten Drive Mt Maunganui 3116 POBox 14-450 Tauranga 3141 Tel: 0800 220 002 Email: info@grosafe.co.nz www.grosafe.co.nz **Batch No:**

Date of Manufacture:

Hortcare® and Force® are the registered trademarks of Grosafe Chemicals Limited.

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GENERAL INSTRUCTIONS:

1. Hortcare® Glyphosate 680 WSG is a foliar absorbed and translocated herbicide for control of emerged weeds only and is not residual.

2. Hortcare® Glyphosate 680 WSG can be deactivated by soil particles and hard water containing calcium salts. If hard water cannot be avoided, the addition of Hybrid® SB is recommended.

3. Plants should be actively growing, free of stress with clean foliage at time of spraying. **Hortcare® Glyphosate 680 WSG** and solutions should only be mixed, contained in or sprayed by equipment made from stainless steel, fibreglass, plastic, aluminium, brass and copper. **WARNING:** A highly flammable gas may he formed from the contact of this product with galvanised or unlined steel.

4. The effects of **Hortcare® Glyphosate 680 WSG** may not be apparent for 3–7 days depending on the weather conditions, weed species and the herbicide rate used. Some perennial weeds may not show effects for 14–21 days.

5. Post treatment: A withholding period for grazing stock is not required (except where Ragwort is present), however it is recommended that grazing or cultivation be delayed for three days to allow for absorption/translocation of the herbicide.

RESTRICTIONS:

Do not spray if rain is likely within 6 hours. Do not allow spray contact with non target plants as severe injury may occur.

- 1. Clean spray tank of previous chemical residues, preferably with a chemical residue remover.
- 2. Half fill spray tank with clean water, add required amount of Hortcare® Glyphosate 680 WSG then fill with clean water.
- 3. Add surfactant where required.
- 4. Agitate well before spraying.

5. When tank mixing with other chemicals, add **Hortcare® Glyphosate 680 WSG** after other water soluble products, but before flowables.

APPLICATION:

Boom equipment: Hortcare® Glyphosate 680 WSG can be applied in spray volumes of up to 200 litres per hectare using fan nozzles at pressures in the range of 240–280 kPa.

Boom height should be set so a double overlap of nozzle pattern is achieved at the top of the target plant.

Aerial equipment: (Forest and non-crop areas only) Hortcare® Glyphosate 680 WSG can be applied by aircraft in spray volumes of up to 100 litres per hectare. Increase spray volumes in hilly terrain to ensure maximum target contact. DO NOT use in intensive horticultural cropping areas.

Handgun and Knapsack: Ensure a fine spray pattern to give complete coverage. Spray to the point of run-off. Wiper equipment: Mix at the rate of 1 part (1 kg) product with 4 parts (4 litres) of water. Mix only enough for immediate use. Plants must be clean and dry and the wiper fully saturated. Apply up and down slopes for effective applications. In cases of high weed density reduce speed and apply twice in opposing directions.

CLEANING EQUIPMENT:

All spray equipment including pumps, spray tanks, lines and nozzles, landing gear (aircraft) should be thoroughly washed with water after each day of spraying.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

RESISTANT WEEDS MANAGEMENT

GROUP	9	HERBICIDE
OROOI	· ·	TIERDICIDE

Hortcare® Glyphosate 680 WSG contains glyphosate as the ammonium salt. Glyphosate is a glycine herbicide which inhibits EPSP synthase. Naturally occurring resistant biotypes are known to exist and can become more prevalent after many years of continuous or excessive use of this product. To prevent or delay resistance use Hortcare® Glyphosate 680 WSG in tank mixes as appropriate, and/or in rotation with herbicides that have a different mode of action. Refer to www.resistance.nzpps.org for further resistance management advice.

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SITUATION	CROP	COMMENTS
Drains and waterways		 Do not spray until 75% of the weed is above water level. Do not allow submergence for 6 hours post spraying.
Forestry For control of all listed weeds prior to planting of forest or nursery or around established trees.		 For rates for weeds see Weed Table. Do not allow spray contact with established trees.
Industrial As a knockdown or selective, ie, spot spraying.		1. Treat weeds as per Weed Table.
Market Gardens As a knockdown prior to seeding, transplanting and after harvest clean-up.	All vegetables	 For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds. Cultivate within 21 days of spraying to ensure control. Do not sow until a satisfactory seed bed has been prepared. An appropriate residual herbicide can be used as a tank mix with Hortcare Glyphosate 680 WSG.
Minimum Tillage For total weed control prior to seeding.	Cereal, pasture and leguminous crops	 For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds. To ensure control and avoid respraying newly germinated weeds, work sprayed area by full cultivation or the seeding operation within 3 weeks of spraying. Do not sow until a satisfactory seed bed has been prepared. For improved control of White Clover, tank mix with dicamba 20%ai at 1.5 litres/ha. Observe plant back periods of dicamba for respective crop.
SITUATION	CROP	COMMENTS
Orchards and vineyards As a knockdown prior to establishment or where plants are 3 years old or over.	Apple, citrus, grapevines, kiwifruit, pear and stonefruit	 Use a directed or shielded spray. DO NOT let spray contact any green foliage or new growth. Spray before bloom stage of crop. Hortcare Glyphosate 680 WSG can be tank mixed with an appropriate herbicide for residual control.
Pre-harvest For control of emerged weeds and as a clean-up to enhance harvesting.	Wheat, barley, oats and threshing peas	 Spray 7–12 days pre-harvest. Grain moisture should be below 30%. Withholding period: 7 days. Do not spray seed crops. Do not spray undersown crop.
Recreational areas For weed control prior to establishment and as a clean-up around established areas.	Lawns, ornamentals, parks and reserves.	 Established plants: Use a directed or shielded spray or with a wiper around plants avoiding any spray contact on green or growing points of plant.

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RECOMMENDATIONS FOR USE

WEED CONTROLLED	RATE PER HECTARE	COMMENTS
Annual weeds (Seedlings)	Boom/aerial: 0.5 – 1.0 kg. Handgun: 100 g/100 litres. Knapsack: 10 g/10 litres Mistblower; 30 g/10 litres	1. Use the high rate on weeds greater than 14cm across or 14cm high.
Australian Sedge	Boom: 3.0 kg. Aerial: 4.5 kg. Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres Mistblower: 150 g/10 litres	1. Best for 4 weeks post treatment. 2. Wiper: 33% solution.
Barberry	Handgun: 0.5 kg /100 litres Knapsack: 50 g/10 litres Mistblower: 150 g/10 litres	1. Best results when sprayed mid to late Summer after flowering to full fruit.
Barley grass	Boom/aerial: 0.5 kg. Handgun: 100 g/100 litres. Knapsack: 10 g/10 litres Mistblower: 30 g/10 litres	1. Apply September to December
Blackberry	Boom/aerial: 4.5 - 10.0 kg Handgun: 0.5 - 0.75 kg/100 litres Knapsack: 50 g/10 litres Mistblower: 150 g/10 litres	 Best results when sprayed mid to late summer after flowering to full fruit. Best results when plants have a full canopy and total leaf coverage achieved. Use higher rate on heavy infestations where total coverage may not be achieved. Regrowth can occur after 1-2 years. Do not disturb treated plants until 8 weeks post treatment.
Bracken	Boom or aerial: 4.5 kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres	 Spray mid summer to mid winter when fronds are open Burning after treatment will help pasture establishment. The addition of Force® Penetrant at 250ml /100 litres is recommended.
Broom	Boom or aerial, handgun, knapsack as above Mistblower: 150 g/10 litres	1. Spray late spring to early summer when plants are in full leaf. 2. The addition of Force[®] Penetrant at 250ml /100 litres is recommended.
Browntop	Boom or aerial 1.5 kg Handgun: 0.25 kg/100 litres Knapsack: 25 g/10 litres Mistblower 75 g/10 litres	I. If plants are greater than 10 cm high, graze or burn then treat regrowth. 2. The addition of Force® Penetrant at 250ml / 100 litres is recommended.
Buddleja	Boom or aerial: 4.5kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres	 If actively growing treat at any time of year. Aerial: treat Feb. to April. Page 4

WEED CONTROLLED	RATE PER HECTARE	COMMENTS
Californian Thistle	Boom or aerial: 2.0kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres Mistblower: 150 g/10 litres	 Spray plants after flower bud stage. Improved results obtained when thistles are mowed 10 days post spraying.
Couch	Boom or aerial: 1.5 - 3.0 kg. Handgun: 0.5 kg/100 litres Knapsack: 50 g/ l0 litres	 Spray at early seedhead stage when plants are actively growing. Use the low rate for suppression only. Pre-harvest: Use 4.0 litres/ha. Hortcare[®] Glyphosate 680 WSG will not control unemerged growth.
Docks	Boom or aerial: 2 - 4.5 kg Handgun: 0.5 kg/100 litres Knapsack: 50g/10 litres	 Best results when sprayed Spring Summer before seed-heads have formed. Use high rate on established plants.
Floating Sweet Grass, Reed Sweet Grass	Boom or aerial: 3.0kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres Mistblower: 150 g/10 litres	Apply to actively growing plants.
Gorse	Handgun Only: 0.5 kg/100 litres	 Use Force[®] Penetrant at 200ml/100 litres. Spray at any time of year. Ensure complete coverage. Regrowth may occur after 1 year. Re-treat if required.
Indian Doab	Boom or aerial: 4.5kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres	1. Best results when plants are at early seedhead stage.
Kikuyu	Boom or aerial: 3.0kg Handgun: 0.5 kg/100 litres Knapsack: 50g/10 litres Mistblower: 150 g/10 litres	1. Best results when plants are in the early seedhead stage.
Mercer Grass - Aquatic (A) - Non Aquatic (NA)	Boom or aerial: (A) 4.5kg, (NA) 3.0kg Handgun: (A) (NA) 0.5 kg/100 litres Knapsack: (A) (NA) 50g/10 litres Mistblower: (NA) 150g /10 litres	1. Best results when plants are in the early seedhead stage.
Nodding Thistle	Handgun: 0.5 kg/100 litres Wiper : 15 g/100 ml.	 Wiper: A double pass may be required for good coverage. Treat Spring to Autumn on actively growing plants with at least 10cm of growth exposed to wiper.
Old Mans Beard	Handgun: 0.5 - 1.0 kg/100 litres Knapsack: 100 g/10 litres	 Apply before the first leaf browns off. Use the higher rate on plants with stems greater than 1cm in diameter. If complete coverage is not possible, cut plants in the winter and treat at the high rate when regrowth is at 0.5-1.0 cm in length.

WEED CONTROLLED	RATE PER HECTARE	COMMENTS	
Pampas Grass, Toetoe	Handgun: 0.5 -1.0 kg/100 litres Knapsack: 50g/10 litres	1. Spray Spring to Autumn. 2. Do not spray flowering plants.	
Paspalum	Boom or aerial: 2 - 3.0 kg Handgun: 0.5 - 1.0 kg/100 litres Knapsack: 50 g/10 litres Mistblower: 150 g/10 litres	1. Spray when plants are at early seedhead (Jan-Apr.)	
Potato (self set)	Boom or aerial: 1.5 kg Handgun: 0.25 kg/100 litres Knapsack: 25 g/10 litres Mistblower: 75 g/10 litres		
Ragwort	Boom or aerial: 3.0 kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres Mistblower: 15 g/100 ml	 Ensure adequate leaf area for spray uptake. Wiper: Plants should be above pasture to avoid non-target contact. Use a double pass for best results. Plants become more palatable to stock after treatment so remove until brownout occurs. 	
Ratstail	Boom or aerial: 2.5 kg	 Use high water volumes (200 litres/ha) in Autumn when foliage is green. Do not disturb treated plants for 21 days post spraying. 	
Rautahi (Cutty Grass), Rushes, Tall Fescue	Boom or aerial: 3.0 kg Handgun: 0.5 kg/100 litres Knapsack: 50 g /10 litres Mistblower: 150 g/10 litres	 Spray Jan-March. Do not burn or slash for 4 weeks post spraying. 	
Ring Fern	Boom or aerial: 0.5 - 1.5 kg Handgun: 0.15 kg /100litres Knapsack: 15 g/10 litres	1. Use the high rate for control. 2. Use 0.5 -1.0 kg /ha for Pasture Manipulation.	
Ryegrass (Perennial)	Boom or aerial: 0.75 - 1.5 kg Handgun: 0.25 kg/100litres Knapsack: 25 g/10 litres	 Use the low rate only when cultivation is to follow treatment. Add Force[®] Penetrant at 200ml /100 litres 	
Sweet Briar	Boom or aerial: 6 kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres	 Add Force[®] Penetrant at 250ml/100 litres. Spray to ensure full coverage any time from late flowering to early leaf yellowing. 	
Willow	Boom or aerial: 4.5 kg Handgun: 0.5 kg/100 litres Knapsack: 50 g/10 litres	1. Spray to ensure good leaf coverage from mid to late Summer.	
Yarrow	Boom or aerial: 1.5 - 3.0 kg	 For best results cultivation should follow treatment. Only use the low rate when a competitive crop is planted after treatment. 	

Page 6

DANGER KEEP OUT OF REACH OF CHILDREN



A non-selective contact herbicide for the control of a wide range of broadleaf and grass weeds in orchards, vineyard and non crop areas.

ACTIVE INGREDIENT: Contains 200 g/l glufosinate ammonium in the form of a soluble concentrate.

NET CONTENTS: 20 litres GSSY574/F03



SCYTHE®



HAZARD CLASSIFICATIONS: Eye irritation Category 2, Reproductive toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment chronic Category 3.

DANGER: Causes target organ damage from repeated oral doses at high rates. Causes serious eye irritation. May cause reproductive/development damage from

repeated doses. ECOTOXICITY: Harmful to aquatic life with long-lasting effects. Harmful to soil organisms and to terrestrial vertebrates. Do not apply directly into or onto water. Take all reasonable steps to ensure that the product

Do not apply directly into or onto water. Take all reasonable steps to ensure that the produ does not cause any adverse effects to the environment beyond the application area. **PERSONAL PROTECTION:** When mixing or loading wear overalls, impervious gloves and eye/ face protection. Wash hands and exposed skin after work. Wash personal protection clothing and equipment before re-use. **STORAGE:** Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs, fertiliser and seeds. Storage should be in accordance with current version of NZS 8409 Management of Agrichemicals. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact the proprietor for further information about the use of this product if it is older than this.

years from the date of individuals. Containe proprietor for former information about the use of this product if it is older than this. **SPILIS:** When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain spilled material, absorb with sawdust or inert material and place in properly labeled, sealed drums for safe disposal. If spray mixture is spill absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

DISPOSAL: Avoid contamination of any water supply with product or empty container. **PRODUCT DISPOSAL:** If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and there roots **CONTAINER DISPOSAL:** Triple rinse container and add residue to mixture. Recycle containers if possible, otherwise crush and bury in an approved land fill. **SAFETY DATA SHEET:** A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: If exposed or concerned, get medical advice. For advice call a doctor or the National Poisons Centre (0800 764 766) If swallowed do NOT induce vomiting. Rinse mouth. Get medical advice if feeling unwell. If in eyes, immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do after the first few minutes and continue rinsing. If on skin, wash with plenty of soap and water. Get medical attention if eye or skin irritation persists.

EMERGENCY RESPONSE 0800 CHEMCALL: 0800 243 622

GENERAL INFORMATION

Scythe is absorbed by the foliage and green stems of actively growing plants. It is inactive in soil and is not translocated within the plants, so thorough coverage is essential for good results. Visual effects of treatment will become evident more rapidly under ideal growing conditions: generally within 3 – 10 days. Rainfall within 2 hours of application may wash \pmb{Scythe} off the foliage, and within 6 hours will reduce effectiveness so that re-treatment may be necessary. Do not spray in temperatures below 10°C. Avoid contact with green parts, including immature bark, of desirable plants, as damage may occur. Do not mow or cultivate after treatment until the weeds start to die.

WITHHOLDING PERIOD: 28 days (all crops)

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

MIXING / COMPATIBILITY: Add the required amount of Scythe to the partly filled spray tank, start agitation. Maintain agitation while filling and applying. **Scythe** is compatible with most commonly used residual herbicides.

RECOMMENDATIONS FOR USE: The maximum application rate of **Scythe** is 10 L/ha (2.03 kg ai/ha), with a maximum of two applications per year and a minimum application interval of 90 days. Only around-based application methods can be used.

grouna-based application methods can be used.				
CROP	RATE	COMMENTS		
Berryfruit (raspberries and brambles) primocane control	500-750 ml/100 litres, applied via cone nozzles in sufficient water to ensure complete coverage of primocanes.	Apply as a directed high volume spray to primocanes not exceeding 25 cm. Avoid drift onto foliage of fruiting canes. Use the high rate on vigorously growing crops. Add a non ionic wetter. Do not apply before the first primocanes have reached 15 cm. Do not apply to plants under stress.		
Orchard and Vineyard weed control. (pipfruit, kiwifruit,stonefruit, grapes and citrus)		Apply in Spring when the majority of annual weeds have germinated. Appropriate residual herbicides may be applied in mixture for long-term weed control.		
Stale seedbed preparation, especially where clover is a problem	3-5 litres in 200 - 300 litres of water per ha.	Apply to seedling weeds and clover in sufficient water to ensure complete coverage. May be applied up to one day before crop emergence.		
Non-crop land: general weed control	7.5-10 litres in 300 - 500 litres water per ha. (100 ml/10 litre knapsack).	Apply to run-off. Appropriate residual herbicides may be applied in mixture for long-term weed control.		

WEED SUSCEPTIBILITY:

WEED SUSCEPTIBILITY: Use the lower rates only when weeds are young, succulent and actively growing, or when the weed population is sparse, allowing good coverage and penetration. Use the higher rates when weeds are larger or the population is dense. Scythe may not control mature weeds or those with developed tap roots or underground storage organs. Some regrowth may occur following treatment.

Indicated dose range for major weeds 3 - 5 litres/ha

3 - 5 litres/ha Annual poa, Asparagus seedlings, Beaked hawksbeard, Black nightshade, Calandrinia, Chickweed, Cleavers, Clover seedlings, Cornbind, Daisy, Dandelion, Mouse-eared chickweed, Musky storksbill, Redroot, Rough-stalked meadow grass, Scotch thistle, Sow thistle, Stagger weed, Summer grass, Spurrey, Stinking mayweed, Subterranean clover, Wild turnip, Willow weed, Wireweed. 7 Elize-ad-

Subterrance, nover, Wild turñíp, Willow weed, vureweeu.
 5 - 7.5 litres/ha
 Bristle grass, Bur medick, Catsear, Chewing's fescue, Clovers, Cut-leaved geranium, Docks, Fleabane, Parsley piert, Prairie grass, Ryegrasses*, Sheep's sorrel, Storksbill, Strawberry, Twin Cress, Yorkshire fog.
 7.5 - 10 litres/ha
 Broom, Buttercups*, Couch, Field pansy, Crowfoot grass, Gorse, Hawksbeard, Kikuyu grass, Mallow, Paspalum, Tall fescue, Wild strawberry, Willow herb, Yarrow.
 10 litres plus/ha
 Bracken, Indian doab, Meadow rice grass, Plantains, Rape, Rushes, Sedges.
 * Resistant weeds: Hairy buttercup, some Ryegrass strains

Registered pursuant to the ACVM Act 1997, No P009031 See www.foodsafely.govt.nz for registration conditions. Approved pursuant to HSNO Act 1996, HSR 007813. See www.epa.govt.nz for approval conditions.

WARANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance. When packacture the user bears the risk for damage resulting from factors beyond the manufacture denotes and the institution of the second s

REGISTERED PROPRIETOR:



Scythe® is a registered trademark of Grosofe Chemicals Ltd. GSSY574-Y/B01





WARNING

ECOTOXIC Keep out of reach of children

RECLAIM® BRUSHKILLER HERBICIDE

A herbicide for the control of a range of brushweeds.

ACTIVE INGREDIENT: Contains 100g/litre picloram as the amine salt and 300 g/litre triclopyr as the butoxyethyl ester, in the form of an emulsifiable concentrate.





RECLAIM® BRUSHKILLER

HAZARD CLASSIFICATION:

Acute toxicity oral Category 4, Eye irritation Category 2, Skin sensitisation Category 1, Specific target organ toxicity, repead exposure Category 2, Hazardous to the aquatic environment, Category 1, Hazardous to aquatic environment, drironic Categ , annonic Category 1, estrial vertebrates rdous to te

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TOXICITY WARNING: Harmful if swallowed. Causes serious eye irritation. May cause an allergic skin reaction. May cause organ adapted from repeated oral exposure at high doses.

ECOTOXICITY Highly toxic to aquotic plants. Toxic to plants and harmful to terrestrial vertebrates. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Handle and apply with care, spray drift may cause severe damag to other desirable plants. Do not apply directly into or onto water. Avoid contamination of any water suppl with product or empty container. Decontaminate equipment after use. QUALIFIED HANDLER: This product must be under the control of an appropriately trained handler during

with product or empty container. Decontaminate equipment after use. QUALIFED HANDLER: This product must be under the control of an appropriately trained handler during mixing, loading and use. RECORD REPING; Records of use must be kept when 3 kg or more is applied within 24 hours in a place where the substance is likely to enter air or water and leave the application area. PERSONAL PROTECTION: When mixing or loading wear overalls, impervious gloves and eye/ face protection. Wash hands and exposed skin after work. STORAGE: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from floadstuffs, seeds and fertilisers. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals (N258409). Storse containing more than 100 L require signage, secondary containment and an emergency response plan. When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact the distributor for further information about the use of this product if it is older than this. SPILS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain and collect spill. Absorb with suitable inert absorbent material and store in properly labeled, seled drums for sofe disposal. It spray muture is spilled absorbent and there is applied, advide the local water authority. PRODUCT DISPOSAL: Hip ossible dispose of by using according to the label, otherwise dispose of in an approved landlik or bwy sleads softmer and add residue to spray mixture. Recycle empty container through Agrecovery (www.agrecovery.co.nz), atherwise bury in a suitable land fill. SAFETY DATA SHEET: A safety data sheet is available from Grosofe Chemicals Lid.

FIRST AID: For advice call a doctor or the National Poisons Centre (0800 764 766). If swallowed, give a glass or two of water but do NOT induce vomiting. Get medical advice if you feel unvell. If splashed in eyes, wash out immediately with water for several minutes. Remove contact incess, if present and eacy to do. Continue rinsing, If irritation persists, get medical attention. If on skin, remove contaminated dothing immediately. Wash skin immediately with plenty of scop and water. If skin irritation or rash occurs, get medical advice. In case of inhalation of spray remove to fresh air. Get medical attention of the raching is difficult or person feels unvell.

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)

SPRAY EQUIPMENT

SPRAY EQUIPMENT Hand guin: topy the recommended mix to give full coverage of leaves and stems, from all directions. Use a No. 6–8 tip and pressure of not less than 1,000 kPa or greater than 2,000 kPa. Aerial application: Apply 200–400 litres spray-mix per hectare as a coarse spray (BCPC or ASAE S572). To minimise drift it is recommended to spray when wind speed is between 3 and 20 km/hr. Do not spray if sensitive plants are downwind. Aerial applications may require some fallow-up ground spraying. Knapsack: Apply the spray mix to give fall coverage of leaves and stems. Mistblower: Use only where good coverage can be achieved. Use a marker dye.

All applications must be in accordance with the New Zealand Standard for the Management of Agriche (NZS 8409).

CLEANING SPRAY EQUIPMENT

After use empty the spray unit and drain the whole system. Wash the spray tank with a pressure hose. Drain the spray unit and clean filters, pump, lines, hoses and nozzles. Quarter fill the tank with clean water and circulate through the pump, lines, nozzles. Repeat this process. Note: rinse water should be sprayed on ground already sprayed or on waste land away from desirable plants or water sources.

DECONTAMINATION: Before spraying sensitive crops with equipment that has been used to apply **Reclaim®** Brushkiller, rinse the system as above. Quarter fill the tank and add an alkali based laundry detergent at the rote of 500g (or m.) per 100 litres of water (halve the rote for concentrated deaners). Circulate through the system for fifteen minutes. Do not use cleaners containing chlorine. Drain the system. Clean filters and nozzles. Flush the system with clean water

with clean water. MIXING: Half fill the spray tank with water and add the measured amount of **Reclaim® Brushkiller** Start the agilator and add the remainder of the water. If required add **Force® Penetrant**. Maintain agitation while spraying. Mix only sufficient spray-mix for immediate use. Do not store spray-mix.

WITHHOLDING PERIOD:

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food notice Maximum Residue Levels for Agricultural Compounds.

STOCK SAFETY: Poisonous plants (such as inkweed, ragwort, tutu) can become more palatable after spraying. If concerned, stock should be kept away from treated areas until the plants have died.

RESISTANCE MANAGEMENT:	GROUP	4	HERBICIDE

Reclaim® Brushkiller is a pyrialine carbaxylic-acid herbicide. Some weed species may become resistant following repeated doses. In such cases herbicides of different modes of action should be used. See: http://neps.org/resistance/picolinic.php (or dealis) for isatiance management strategies.

CLOVER RE-ESTABLISHMENT: Residues of pictoram (an active ingredient in Reclaim® Brushkiller) are harmful to legumes and may prevent early re-establishment after treatment. To check for such residues it is suggested a ter area should be somv with clover 1–2 months prior to the planned drilling time. DIRECTIONS FOR USE / DOSE RATES

Weed	Gun	Aerial	Weed	Gun	Aerial
	mls/100L	litres/ha		mls/100L	litres/ha
	water			water	
Gorse	250-300	10	Lupin	100	2
Broom	250	10	Sweet Briar	300-500	12
Tutu	300	10	Matagouri	500	12
Blackberry	500-650	10	Wooly Nightshade	250	10

Knapsack: Use 6 ml Reclaim® Brushkiller per litre of water. Mistblower: Use 100 ml / 10 litres. For ulv application use 500 ml / 10 litres, using the No. 3 or 4 hole. COMMENTS

COMMENTS GORSE: Ground application: Apply during the active growth period, from spring until early summer at a rate of 250 ml /100 litres. In North Canterbury use 300 ml / 100 litres. If growth is slow or in adverse conditions add Force® Penetrant at 100 ml / 100 litres spray mix. A follow up treatment may be necessary for complete con Aerial applications: Apply during active growth. Add Force® Penetrant to the spraymix at 2 litres/hectare. Bushes should be less than 3m high, with stems less than 3 cm in diameter. ntrol.

BROOM: Apply during the active growth period, from spring until early summer. Bushes should be less than 3m high, with stems less than 3 cm in diameter.

TUTU: Apply to fresh regrowth after frond expansion.

BLACKBERRY: Apply during summer and autumn when bushes are growing actively. Higher rates will be required in the East Coast of the North Island and in Northland. Note: in Northland some strains of this weed are difficult in the to kill

SWEET BRIAR: Apply in November to early January. Aerial application should be restricted to bushes less than

MATAGOURI: For best results spray in November - December when the plants are growing actively.

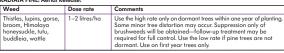
WOOLLY NIGHTSHADE: Ground and aerial application: Apply when growing actively. The use of Force®

RAGWORT and other weeds: Use the gorse application rate for the control of such broadleaf weeds as ragwort, fennel, nettle, inkweed and thistles.

BARBERRY, OLD MAN'S BEARD, HAWTHORN, WOOLLY NIGHTSHADE, WATTLE, WILLOW and other brushweeds. STUMP TREATMENT STUMP TREATMENT: Mix 1 part Reclaim® Brushkiller with 20 parts water or diesel oil. Using a paintbrush or knapsack sprayer apply to the freshly cut surface and stems to ground level. If using diesel oil maintain agitation.

TREES, Stem treatment: With an axe or hatchet, make shallow cuts at waist height, shaped to trap 1–2 mls Reclaim® Brushkiller applied with a drench gun or similar. Treat when trees are growing actively.

RADIATA PINE: Aerial Rele



Consult your Grosafe representative.

Grosafe

GROUP

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See www.foodsafety.govt.nz for registration conditions. Approved pursuant to HSNO Act 1996, Approval code: HSR 002485 See www.epo.govt.nz for approval codeiitons. WARRANTY This formulation is warranted to contain the specified active ingredient within accepted containing t

Registered and distributed by: Grosafe Chemicals Ltd 20 Jean Batten Drive Mt Maunganui 3116 POBox 14-450 Tauranga 3141 Tel: 0800 220 002

Email: info@grosafe.co.nz www.grosafe.co.nz

Date of Manufacture:

Batch No:



Reclaim® and Force® are the registered trademarks of Grosafe Chemicals Ltd



WARNING ECOTOXIC, COMBUSTIBLE LIQUID Read label before use Keep out of reach of children

KNOCKDOWN PLUS

Grass friendly herbicide for the control of gorse, broom, blackberry and other brush weeds. Also for broadleaf weed control in turf.

ACTIVE INGREDIENT: Contains 600g/litre triclopyr as the butoxy ethyl ester in the form of an emulsifiable concentrate.



NET CONTENTS: 20 LITRES



HSNO HAZARD CLASSIFICATION: 3.1D, 6.1D, 6.3B, 6.4A, 6.5B 6.9B, 9.1A, 9.2A, 9.3C

WARNING: Combustible liquid. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Harmful if swallowed and aspirated into lungs, or if inholed or absorbed through the skin. May cause skin or eye irritation. May cause an allergic skin reaction. May cause organ damage from repeated and exposure at high doses. ECOTOXIC: Very toxic to aquatic life with long lasting effects. Very toxic to the soil environment and harmful to terrestrial vertebrates. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environmental beyond the application area. Do not apply onto or into water. Do not mix are path ager any hard to drute main and the transfer and the substance does not cause any significant or apply near any body of water, avoid spray drift over, or spillage into water. Avoid contamination of any water supply with product or empty container.

water supply with product or empty container. **TRAINED PERSON:** The person mixing, handling and applying this product must be qualified. Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 litres of KNOCKDOWN PLUS® is applied within a 24 hour period. **PERSONAL PROTECTION:** When mixing or applying wear overalls, impervious gloves and eye/ face protection. Do not breathe mist, vapours or spray. Use only outdoors or in well-ventilated area. Do not eat, drink or smoke while using the product. Wash hands and exposed skin before meals and after work. Wash restruction efficience and equivations thefane area.

protective clothing and equipment before reuse. STORAGE: Store in original container tightly closed and in a locked dry, cool, well ventilated area away from foodstuffs. Keep out of reach of children.

facdstiffs. Keep out of reach of children. In case of fire: Use water spray or faam. When stored appropriately this product should show no significant degradation for 2 years from date of manufacture. Contact the supplier for further information about the use of any product that is older than this. SPILS AND DISPOSAL: When dealing with spills wear personal protective clohing and equipment as described in the PERSONAL PROTECTION section. If spill, contain and absorb with inert material such as soil described in the PERSONAL PROTECTION section. If spill, contain and absorb with inert material such as soil or sand, collect into properly labelled drums that can be sealed for safe disposal. Deal with all spillages mmediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an d landfill

CONTAINER DISPOSAL: Triple rinse container and add residue to mixture. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise bury in a suitable land fill. SAFETY DATA SHEET: A sofety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: For advice call a doctor or the National Poisons Centre (0800 764 766). If medical advice is

First Auto: For advice coll a accior or the National Postens Centre (1000 / 64 / 56), if medical advice is needed, have product contained toble alt hand. If swallowed, rinse mouth. Do NOT induce vomiting. Call the National Poissons Centre or doctor immediately for advice. If in eyes, rinse coutlously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing, if eye irritation persists, get medical attention. If on skin, wash with plenty of scop and water. If irritation or rash occurs, get medical advice. In case of inholdion, move person to fresh air immediately and keep at rest in a position comfortable for breathing. If the person is experiencing respiratory distress then ease medical assistance. EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622).

GENERAL INFORMATION:

KNOCKDOWN PLUS® is damaging to clovers at the rates recommended for brush weed control. To minimise clover damage, hard graze to remove as much clover leaf as possible before spraying. For best results, spray brush weeds between November and February when they are actively growing. Use the higher rate for periods of less active growth between February and May. Spraying during winter dormancy or when plants are stressed (e.g. from drought, hard grazing, water logging, previous cutting or salt damage) can give variable results. Follow-up treatment may be required for complete control. EQUIPMENT: Apply using well maintained and accurately calibrated equipment. Do not use strainers finer than 200 microsphere. Deres are universet theory with deap waters. Do not use strainers their water and the set in the set of the set o

EQUIPMENT : Apply using well maintained and accurately calibrated equipment. Do not use strainers timer than 300 micrometers. Clean equipment throughly after use with clean vater. Do not use equipment which has applied KNOCKDOWN PLUS® or applying other materials to desirable plants unless it has been thoroughly decontaminated using procedures recommended for phenoxy herbicides. ANIMAL SAFETY: Poisonous plants may become more palatable after spraying. Stack should be kept away from the treated area until the plants have died down.

DIRECTIONS FOR USE: It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

<u>Gun Spraving</u> Completely wet the foliage and stems from all directions. Use a spraying pressure of 1000 - 2000 kPa.

WEED	RATE / 100L	NOTES
Gorse, Broom	200ml	During periods of soft active growth between November and February.
	300ml	When spraying outside the optimal period or when plants are not actively growing.
	Note: The use of an organosilicone penetrant such as Force® Penetro at 100ml /100L is recommended to improve control of gorse.	

WEED	RATE / 100L	NOTES
Blackberry	300ml	During periods of active growth in summer and early autumn.
	600ml	For hard grazed or lower growing types found in the North Island. East Coast and Northland regions. Some 'difficult-to-kill' species, especially in Northland are not well controlled.
	Note: Remove ca	nes in the following spring by burning, slashing or crushing.
Lupin	150ml	Apply during active growth from spring until late summer.
Sweet Brier	500ml	Apply from late flowering to early leaf yellowing.
Old Mans Beard	400ml	Treat November - March before leaf senescence.
Tutu	300ml	Treat regrowth after frond expansion.
Fennel	300ml	Apply to actively growing plants.

Aerial Spraying Apply with a calibrated aircraft using the half overlap-opposite pass technique. Use 200 - 400 litres of water per heatare. Use low drift nozzles which minimise the production of small droplets. The use of a drift control agent is recommended. Preferred wind conditions are a light constant breeze away from any sensitive crop. Some follow-up ground treatment may be required.

WEED	RATE LITRES/HA	NOTES
Gorse, Broom	10	Apply only during active growth (post flowering). Hard grazed scattered gorse should be ground treated. Best results are obtained from treating bushes less than 2m high with less than 3cm diameter stems.
	5	Use for desiccation 3-4 months before burning.
	3	To control actively growing seedlings beyond the cotyledon stage.
		an organosilicone penetrant such as Force® Penetrant at 250ml /100L to improve control of gorse.
Lupin	3	Apply during active growth from November to January.
Tutu	8	Treat fresh regrowth after frond expansion. Follow-up ground treatment may be required.
Blackberry	10	Apply during active growth in summer to early autumn. Remove canes in the following spring by crushing, burning or slashing. There will be some regrowth requiring follow-up treatment, especially in Northland and the North Island East Coast regions.

Stump Swabbing: Barberry, hawthorn, woolly nightshade, wattle, willow: Mix one part KNOCKDOWN PLUS® with 20 parts water or diesel. Using a paintbrush or knapsack liberally cover the cut surface and stem to ground level. If using diesel agitate while filling and during use.

Knapsack: Use 60ml KNOCKDOWN PLUS® per 10 litres water Mist blower: Use 100ml/10 litres water. For ULV attachments use 500ml/10 litres water, with a number 3 or 4 hole

Forestry: Aerial release of radiata pine

Forestry: Aerial release of radiata pine. For garse, broom, lupins, Himalaya honeysuckle, wattles. Use 1-2 litres/ha. Apply the lower rate when young trees are not dormant. Only use the higher rate when trees are dormant and within one year of planting. Some minor tree distortion may occur. Note that only weed suppression will be obtained. Turf Grass: To control hydrocotyle, creeping oxalis and some other broadled weeds. Apply 2 litres/ha. Some burning of fine turf grasses may occur. Lownbay: Use 10ml per 3 litres of water per 100 square metres. Apply twice in different directions. Do not use clippings from treated areas for compost or mulch for 6 months after treatment.

Registered pursuant to the ACVM Act 1997, No P9568 See <u>www.foodsafety.govt.nz</u> for registration conditions. Approved pursuant to HSNO Act 1996, Approval Code: No HSR100917 See <u>www.epa.govt.nz</u> for approval conditions.

WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product. GSKPD19/B02 GSKP019/B02

Registered and distributed by:

20 JEAN BATTEN DRIVE Suffered and distributed by: 20 JEAN BATTEN DRIVE MT MAUNGANUI 3116 PO Box 14-450 Tourongo 3143 FREE PHONE 0800 220 002 Email: info@grosofe.co.nz www.grosofe.co.nz



Batch No: Date of Manufacture: PLUS® and Force® are the registered trademarks of Grosafe Chemicals Ltd.



WARNING KEEP OUT OF REACH OF CHILDREN READ LABEL BEFORE USE

ZONDA STUMP GEL NON SELECTIVE HERBICIDE

A ready to use herbicidal gel for direct application onto stump and cut stems; including wild ginger, agapanthus and woolly nightshade trees.

ACTIVE INGREDIENT: 43g/kg picloram as the potassium salt in the form of a ge





ZONDA STUMP GEL

HAZARD CLASSIFICATIONS: Skin sensitisation Category 1, Hazardous to soil organisms WARNING

WARNING: May cause an allergic skin reaction. Toxic to the soil environment.

PERSONAL PROTECTION: Avoid breathing vapours. Wear protective gloves. Contaminated clothing should not be allowed out of workplace. Wash contaminated clothing before reuse.

STORAGE: Store in original container, tightly closed and away from foodstuffs. Store in a cool dry well ventilated area avoiding sunlight and extreme temperatures.

SHELF LIFE: When stored appropriately this product should show no significant degradation for two years from date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

ENVIRONMENT: Take all reasonable steps to ensure the substance does not cause any significant adverse effects to the environment beyond the application area. Do not apply into or onto waterways. Avoid release to the environment.

SPILLS AND DISPOSAL: Deal with all spillages immediately. When dealing with spills wear personal protective clothing and equipment. Collect all spills in labelled drums that can be sealed for safe disposal. Avoid release to the environment. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. PRODUCT DISPOSAL: If possible, dispose of by using all product according to the label, otherwise dispose of in an approved landfill. CONTAINER DISPOSAL: Do not use this container for any other purpose. Triple rinse and dispose of via Agrecovery (www.agrecovery.co.nz) or at an approved landfill.

an approved landfill. **SAFETY DATA SHEET:** A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: If contact with skin occurs wash thoroughly with soap and running water. If skin irritation occurs, get medical advice / attention. If medical advice is needed have the product container or label at hand. EMERGENCY RESPONSE: 0800 CHEMCALL (0800 243 622)

GENERAL INSTRUCTIONS:

Grosafe® Zonda Stump Gel is a ready to use herbicide for direct application onto a wide range of trees, woody weeds, shrubs, scrambling perennial weeds and weeds with creeping or bulbous roots. The product is applied by swabbing the stump or cut stem using a brush applicator. Smaller plants may die over a period of a couple of weeks and larger tree stumps could take a few months to die. If there is any regrowth reapply the Grosafe® Zonda Stump Gel. It is best to apply when the plant is actively growing (Spring and Autumn). Do not apply during rainfall or 12 hours prior to rainfall as this will give a poor result. Do not apply on or around food or animal crops or areas to be grazed by animals. Grosafe® Zonda Stump Gel is a non-selective herbicide – use only on plant species as listed below.

DIRECTIONS FOR USE:

Woody weeds: Old Mans Beard, Climbing Spindleberry, Japanese Honeysuckle, Grey Willow Gorse, Cotoneaster, Darwins Barberry, Elaeagnus and Woolly Nightshade. Cut stems horizontally and preferably no higher than 100mm above ground level. Apply a 5mm thick layer of Grosafe® Zonda Stump Gel over the cut surface of the plant. On stems of 20mm diameter or greater treat 80% of the stems including the leader stems.

Woolly Nightshade trees: Cut a series of grooves 15–20mm deep around main trunks of the tree using an axe or pruning saw. The grooves should have a 20–40mm gap between each one and then apply a 5mm layer of Grosafe® Zonda Stump Gel over the surface.

Rhizomatous plants: Wild Ginger, Agapanthus and Kahili. Prune the Agapanthus horizontally at the base and apply to the cut stem 5mm layer of Grosafe® Zonda Stump Gel across the cut surface of the rhizome. On Kahili Ginger prune and treat the same as the Agapanthus but, if there are more than four rhizomes between the shoots, drill a 10mm hole in every fourth rhizome and fill the hole with Grosafe® Zonda Stump Gel. Wandering Jew: Apply Grosafe® Zonda Stump Gel at 16g per square metre over the foliage using a paint roller or similar, making sure the foliage is completely flattened during the application.

LIABILITY: This product must be used strictly as directed. Grosafe® Chemicals Ltd will not be liable for any loss or damage arising from a failure to strictly follow the directions for use.

Approved pursuant to the HSNO Act 1996 HSR101073 See www.epa.govt.nz for approval controls.

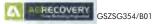
WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Distributed by:

Batch No:



20 JEAN BATTEN DRIVE MT MAUNGANUI 3116 POBox 14-450 Tauranga 3143 FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz Date of Manufacture:



SITE PREPARATION BRUSHWEED HERBICIDES





WARNING: Mild skin irritant and eye irritant

WARNING: Mild skin irritant and eye irritant. ENVIRONMENT: Very toxic to aquatic life. Very toxic to plant life. Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not mix or load near any body of water, avoid spray drift over, or spillage into open water. Avoid contamination of any water supply with chemical or empty container. **PERSONAL PROTECTION:** This product may cause skin and eye irritation. When mixing wear a face mask or goggles, rubber gloves and overalls. Do not exit, ROTECTION: This product may cause skin and eye irritation. When mixing wear a face mask or goggles, rubber gloves and overalls. Do not eat, drink or smoke while using. Wash hands and face before meals and after work. Wash protective clothing after use. **STORAGE:** Store product in original container, tightly closed, in a cool, dry place. Reep out of reach of children, and away from foodstuffs. **SPILS AND DISPOSAL:** When dealing with spills wear personal protective dothing and equipment as described in the PERSONAL PROTECTION section. Contain and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warm the local water authority. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, want the local water authority. **PRODUCT DISPOSAL:** If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposed pit specifically marked and set up for this purpose dear of waterways, desirable vegetation and tree roots. **CONTAINER DISPOSAL:** Burn if circumstances, especially wind direction, permit. Otherwise bury in a suitable land fill. **APPROVED HANDLER:** This product must be under the control of a suitably trained handler.

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SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd

FIRST AID: If spilled on skin/eyes flush with water. For advice call a doctor or the National Poisons Centre (0800 764 766)

GENERAL INFORMATION:

Reply® is non-volatile and non-hormonal and this in conjunction with very low use rates adds to environmental acceptability. Best results are obtained when applied to actively growing weeds during late spring to autumn. **Mode of action:** Rapidly absorbed by foliage and translocated in the plant. Stops plant growth by arresting cell division in the growing tips of roots and leaves. This action occurs very quickly and is followed by a slow decline in plant vigour and subsequent death. **Pasture Re-establishment**: Reply® is extremely injurious to ryegrass/white dover pasture. Soil residues may also prevent early re-establishment of ryegrass and clover and a minimum period of 3 months should elapse before oversowing. As persistence of the soil residue varies according to dose rate, soil type and minfall, it is suggested that small areas be oversown 12 months prior to the planned time for sowing to check for possible harmful residues. Where a quick cover of vegetation is required, a resistant grass such as browntop can be oversown.

oversown. ⁻ **Rainfall:** Rainfa**ll** within 1 hour fo**ll**owing treatment may reduce effectiveness.

Surfactant: Add Force® Penetrant at 100 ml/100 litres of spray mix for handgun application as directed for specific weeds below, and add 1.5 litres per hectare for aerial applications when spraying gorse, around a scheralter. manuka or kanuka

manuka or kanuka. Resistance Management: Reply® is a member of the sulfonyl group of herbicides. Some naturally occurring weed biotypes resistant to Reply® and other sulfonyl ureas may exist. These resistant weeds will not be controlled by Reply® or other sulfonyl urea herbicides and may become dominant in that field. Cultural practices such as tillage, preventing weed escapes from going to seed and using herbicides with different modes of action within and between seasons can aid in delaying the spread and possible dominance of resistant weed biotypes.

RECOMMENDED FOR USE:

Weed	Handgun	Knapsack	Mistblower	Boom/aerial and ground
	Rate/100L	Rate/10L	Rate/10L	Rate/ha
Blackberry	60–100g	15g	30g	600–900g
Bracken	100g	15g	30g	500g
Broom	100g	15g	30g	
Gorse	45g	15g	30g (60g/ulv)	1.5kg
Seedling gorse	-	-	-	500g
Kanuka	100g	15g	30g	900g
Manuka	100g	15g	30g	900g
Matagouri	75g	15g	30g	500g
Sweet Briar	100g	15g	30g	500g
Ragwort/Thistles	15g	3g	-	-

Blackberry: Use the highest rate on harder to kill blackberry types such as those occurring in Northland and on the East Coast of the North Island. Reply" may be applied from November to June, but best results will be obtained from treatment from January to May. Whenever possible use ground application equipment. After treatment, when the canes become brittle, stashing, burning and/or intensive stacking with sheep or goats is recommended to prevent regrowth. Re-growth may require treatment two years after spraying. Bracken: Apply when fronds are unfurled (Jan-June) but before frost browning. Best results can be expected when plants are burnt and frond regrowth is proyed.

browning, test results can be expected when plants are bound and regrowth is sproyed. Broom: Apply from November to May to actively growing bushes. Ensure the addition of Force® Penetrant at 100 ml/100 litres. Gorse: Apply at any time of the year. Add Force® Penetrant at 100 ml/100 litres for handgun, 10 ml/10 litres for knapsack and 1.5 litres per hectare for aerial applications. Knawther /Manufac: AnnAv at any time of the year, The addition of Fo

1.5 litres per hectare for aerial applications. Kanuka/Manuka: Apply at any time of the year. The addition of Force® Penetrant at 1.5 litres/ha is recommended when applying aerially.



Date of Manufacture: Batch No:

Reply® and Force® are registered trade marks of Grosafe Chemicals Ltd.

Matagouri: Apply when bushes are actively growing, generally December-April. The addition of Force® Penetrant at 1.5 litres/ha is recommended when applying aerially. *Sweet brier:* Apply from November-April. Ensure complete

Sweet brier: Apply from Hovember April: Litarie compares coverage of hees. Forestry - Radiata pine only: Use only as a pre-plant treatment. Use 500 g/ha for the control of bracken, blackberry and seeding gorse. Do not plant trees within 2 months of spraying.

2 monins or spraying. Application: Aerial: Apply using the half overlap flying technique with minimal water rates of 200-400 litres/ha. Use nozzle configuration and flight pattern that ensures canopy penetration and full overcage of bushes otherwise that for the state of penetration and full coverage of bushes otherwise' significant regrowth will occur. Aerial application is recommended for use in non-crop areas only. Handgun spraying: Apply to achieve full coverage of foliage and stems and penetration into bushes. Spray to the point of run-off. Use pressures of 1 500-2500 kPa through a No.6 nozzle tip. For gorse, spraying to run-off is essential. The amount of spray reguired will vary with the height density and type of scrub weed. Following aerial application it is vital to implement follow-ups spraying and/or management practices such as slashing, rushing or burning of bushes and oversowing of pasture species. Knapsack: Use a India Inapsack only on small bushes where full coverage of foliage and stems can be achieved. where full coverage of foliage and stems can be achieved. Mistblower: Obtain good coverage of foliage stems and penetration into bushes. For ULV attachments, use the

penetration into bushes. For ULV attachments, use the largest setting. Marker Dye Compatibility: Reply® is compatible with most commonly used marker dyes, but tank mixtures with dyes based on acetic acid should be used vithin 24 hours. Withholding Period: Do not graze treated areas with dairy cows within 3 days after application or 1 day for other stock. It is an affence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Anzirultural Compounds. Residue Levels for Agricultural Compounds.

Registered pursuant to the ACVM Act 1979 No. P 7237 See www.loodsafety.govl.nz for registration conditions

HSNO Act 1996, Approval Code: HSR000245 See www.epa.govt.nz for Controls For additional compliance information refer to www.worksafe.goct.nz.

WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bear the risk for damage resulting from factors beyond the manufacturer's contro the manufacturer declines all liability for damage resulting from imprope storage or use of the praduct.



WARNING KEEP OUT OF REACH OF CHILDREN

REPLY 600 HERBICIDE

A herbicide for the control of gorse and other scrub weeds in pasture and waste areas.

ACTIVE INGREDIENT: Contains 600g/kg metsulfuron-methyl in the form of a water dispersible granule.

NET CONTENTS: 500 grams

GSR6-048/F3



HSNO CLASSIFICATION: 6.3B, 6.4A, 9.1A, 9.2A

HING CLASSIFCATION: 6.38, 6.4A, 9.1A, 9.2A WARNING: Eye irritent and mild skin irritent. PERSONAL PROTECTION: When mixing way a face mask or goggles, rubber gloves amedic and after work Wash participation of the second state before the second after work Wash participation of the second state before and the work Wash participation of the second state of the second STORAGE: Store product in original consinger, jubly closed, in a cool dry pace. Keep out of reach of children, and away from loadstuffs. Store in accordance with NZS 8409 Management of Agrichemical. Stores containing more than 100 kg are required to have a written emergency response plan, and display the appropriate signage. Shelf this: When stored appropriately this product should shave no significant degradation for two years from dote of manufacture. Contact your supplier for further information down years from dote of manufacture. Contact your supplier for further information requipment as described in the PERSONAL PROTECTION section. Contain and store in properly foulded, seeded drums for sofe disposal, it sprays mixture is spilled dosorb, and callect in drums as above. Deal with all spillages immediately. If contamination of dispose of in a napproved fandill or bury belw 500mm in a cipasol, bit sprays REMOUCT DISPOSAL If possible dispose of by using according to the label, oherwite; dispose of in a napproved fandill or bury belw 500mm in a cipasol, bit sprays reaction and store bits process are of waterway, desirable weetild of incomention reactions in the singer second waterway, desirable weetild of incoment (Starburg et al. 1905SAL in Burg in close spinically manifestion and recenting response in StarSASA and the conder second waterway, desirable weetild of incoment (CONTAINER PISPOSAL in Burg in close and the specifically matice and set up for this purpose dear of waterway, desirable weetild of incoment (CONTAINER STARSASA).

CONTAINER DISPOSAL: Burn if circumstances, especially wind direction, permit. Otherwise bury in a suitable land fill.

Otherwise bury in a suitable land fill. ENVIRONMENT: Very toxic to aquatic and plant life, including aquatic plants. Do not mix or load near ony body of wheter, avoid sprav (filt over, or splallage into gene water. Avoid contamination of any water supply with chemical or empty container. Avoid spray drift outside the torget area. QUALIFIED HANDLER: This product must be under the control of a suitably qualified bandler or security thered

handler or securely stored. SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: If on skin, wash with plenty of scap and water. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Get medical advice if irritation persists. For advice call a doctor or the National Poisons Centre (0800 764 766).

Centre (BBC) 764 766). MANACEMENT CONSIDERATIONS: General: Report 9764 766). MANACEMENT CONSIDERATIONS: General: Report is non volatile and non-hormonal and this in conjunction with very low use rates adds to environmental acceptability. Best results are obtained when applied to actively growing weeds during late spring to autumn. Mode of action: Ropidly absorbed by Ioflage and translocated in the plant. Stops plant growth by arresting cell division in the growing lips of rocts and levers. This action accurs very quickly and is lolowed by a slow dedine in plant vigour and subsequent death. Pasture Re-stabilishment Rep 400 is extremely iniprious to regrars (Adver prostures. Soil residues may also prevent early re-stabilishment of ryegrass and dover and a minimum period of three months should elapse before goversyoing. As persistence of the stores the ownerson -12 might back cover of vegetation is required, are resistant grass such as brownerson the growing of the store of the st

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RECOMMENDED USES:

Weed	Handgun	Knapsack	Mistblower	Boom/aerial and ground
	Rate/100L	Rate/10L	Rate/10L	Rate/ha
Barberry	35g	5g	10g	-
Blackberry	20-35g	5-8g	10-16g	200-300g
Bracken	35g	5g	10g	170g
Broadleaf weeds on waste areas, industrial sites	5g	1g	2g	50g
Broom	35g	5g	10g	—
Fenne	5g	1g	2g	50g
Gorse	20g	5g	10g (20g/ulv)	500g
Seedling gorse				170g
Hawthorn	35g	5g	10g	
Inkweed	25g	5g	10g	50g
Kanuka/Manuka	30g	5g	10g	300g
Matagouri	25g	5g	10g	170g
Old Man's Beard	35g	5g		170g
Privet	35g	5g	10g	
Ragwort/Thistles	2.5-5g	1g	_	-
Sweet Briar	35g	5g	10g	170g
Wild Ginger	25g	5g	10g	
Willows	35g	5g	10g	

COMMENTS

Barberry: Best results on bushes under 3 metres: treat from November to May. Barberry: Best results on bushes under 3 metres: treat from November to May. Blackberry: Use the highest rate on harder to kill blackberry types such as hase occurring in Northland and an the East Coast of the North Island. Reply 600 may be opplied from November to June, but best results will be obtained from treatment from January to May. Whenever possible use ground application equipment. After treatment, when the cares become brittle, slashing, burning and/or intensive stocking with sheep or goats is recommended to prevent regrowth. Re-growth may require treatment hav goars after spraying. Bracken: Apply when fronds are unfurled (Jan-June) but before frost browning. Best results can be expected when plants are burnt in Spring and frond regrowth is sprayed in the following March to June.

is spaged in the low only watch to John. Broadlead weeds, annual, perennial: Treat when actively growing. Broom: Apply from November to May to actively growing bushes. Ensure the addition of Force Penetrant at 100 ml/100 litres.

addition of Force Penetrant at 100 ml/100 litres. Fornet: Treat when actively growing. Groze: Apply at any time of the year. Add Force Penetrant at 100ml/100 litres for handgun, 100/110 litres for kangusck and 1.5 litres per hectare for aerial applications. Retreatment may be required. Howfrom: Best results on bubbes under 3 metres: treat from November to March. Inkweed: Treat when actively growing. Kanuka/Manuka: Apply at any time of the year, but reduced control may occur during periods of peak flowering. Ensure complete coverage of tal growing bubb. The period is recommended when applying evidity.

WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacture's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Reply[®] and Force[®] are registered trade marks of Grosafe Chemicals Ltd. Landmark™ is a trademark of Nufarm Limited.



CHEMICALS LTD Date of Manufacture:

Batch No.

Matagouri: Apply when bushes are actively growing, generally December-April. The addition of Force Penetrant at 1.5 litres/ha is recommended when applying aerially.

is recommended when applying dericitly. Old Man's Beard Treadytom November to May, Add Force Penetront at 100 ml/100 litres for handgun, 10ml/10 litres for knapsack and 1.5 litres per hectare for aerial applications. *Privet:* Apply ins Spring and Autumn when actively growing. *Ragwart:* Apply from rosette stage to flowering. Use the higher rote on multicrown plants. Direct story to the earthe of the plant. Seed from treated flowering plants will not be viable providing application is made before sensection (flower sites/acu). After spraying remove stock until the treated plants are dead.

spraying remove stock unit the rearea putins are accus. Sweet Briar, Apply from November-April. Ensure complete coverage. Wild Ginger: Apply from November-April. Ensure complete coverage.

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APPLICATION:

GSR6-048/B4

APPLICATION: Aeriak Apply using the half overlap flying technique with water rates of 200-200 litres/ha, as two averlapping passes of 100-200 litres/ha. For foaming nazzle systems apply a minimum of 230 litres water/ha. Is two averlapping passes of 110 litres water/ha. Use nozzle configuration and flight pattern that ensures canopy regravely mill accur, Aerial application is recommended for use in non-crop areas only. Following aerial application, it is vital to implement follow-up spraying and/or management practices such as dashing, crushing or burning of burkes and oversowing of passive species. Handgun spraying: Apply to achieve full coverage of foliage and stems and penetration into buels. Spray to the point of run-off. Use pressures of 1500-2500 kPa through a No. of nozzle tip. For grees, spraying to run-off is estinical the amount of spray required will vary with the height, density and type of scrub weed. Knapsack: Use a hand knapsack only on small bushes where full burses for the full optication of spray required will vary with the height, density and type of scrub weed.

Knapsack: Use a hand knapsack only on small bushes where full coverage of foliage and stems can be achieved.

Mistblower: Obtain good coverage of foliage stems and penetration into bushes. For ULV attachments, use the largest setting.

Marker dyes: Reply 600 is compatible with most commonly used marker dyes, such as Landmark^{IM}, but tank mixtures with dyes based on acetic acid should be used within 24 hours.

Registered pursuant to the ACVM Act 1979 No. P8544. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSNO Act 1996, No HSR 000242 See www.epa.govt.nz for approval Controls.





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SELECTIVE GRASS AND BROADLEAF WEED HERBICIDES



WARNING KEEP OUT OF REACH OF CHILDREN READ LABEL BEFORE USE

GROGARD[®] HERBICIDE

A selective herbicide for the control of broadleaf and grass weeds in forestry, lucerne, maize, sweetcorn, peas, certain orchard crops and non-crop situations.

ACTIVE INGREDIENT: Contains 900 g/kg terbuthylazine in the form of a water dispersible granule.

NET CONTENTS: 10 KG



GSGG002/LF1



HAZARD CLASSIFICATIONS: 6.1D, 9.1A, 9.2A, 9.3C

WARNING: Harmful if swallowed, inhaled or absorbed through the skin. ECOTOXIC: Very toxic to fish with long lasting effects. Very toxic to the soil environment. Harmful to terrestrial vertebrates. SELECTIVE HERBICIDE-VERY TOXIC TO SOME PLANT SPECIES.

Beware: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area. Do not apply directly into or onto water. Avoid

autside the target area. Do not apply directly into a not water. Avoid contamination of any water supply with product or empty container. APPROVED HANDLER: This product must be under the control of an appropriately trained handler when it is applied in a wide dispersive manner or used by a commercial contractor. Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 kg of GROGARD is applied within a 24 hour period. **PERSONAL PROTECTION:** When mixing or applying wear overalls, impervious gloves and eye/face protection. Avoid contact with or inhalation of spray mist. Wash hands and exposed skin after work. **STORAGE:** Store in original container tightly closed and in a secure, dry, cool, well ventilated area, away from foodstuffs. **SPILLS AND DISPOSAL:** When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain spilled product and store in properly labelled, sealed drums as above. Deal with all spillages immediately. If contamination of drains,

above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. **PRODUCT DISPOSAL:** If possible dispose of by using according to the

label, otherwise dispose of in an approved land fill. **CONTAINER DISPOSAL:** Triple rinse container and add residue to mixture. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise bury in a suitable land fill. **SAFETY DATA SHEET:** A safety data sheet is available from Grosafe

Chemicals Ltd.

FIRST AID: For advice call a doctor or the National Poisons Centre (0800 764 766).

FIRST AID: For advice call a doctor or the National Poisons Centre (0800 /64 /66). Have product container or label at hand. If swallowed, rinse mouth, give a glass or two of water but do NOT induce vomiting. Get medical advice if person feels unwell. If in eyes, immediately flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention. If on skin, remove contaminated clothing immediately. Wash skin immediately with plenty of soap and water. In case of inhalation of spray remove to fresh air. Get medical attention if patient is in distress.

EMERGENCY RESPONSE: 0800 CHEMCALL (0800 243 622)

GENERAL INFORMATION:

GROGARD controls a wide range of weeds. The weed spectrum includes: barley grass, black nightshade, browntop, cats ear. chickweed, clovers, cocksfoot, dove's foot, fat hen, Kentucky bluegrass, lotus, nodding thistle, Poa spp, redroot, Scotch thistle, seeding gorse, shepherd's purse, storks bill, sweet vernal, willow weed, Yorkshire fog, plus many other annual grasses and broadleof weeds. It does not control deep rooted perennial grasses such as paspalum, kikuyu and Indian doab.

GROGARD is absorbed through the roots and leaves, with signs of activity taking 1-3 weeks to become apparent. Rainfall within three hours of spraying will reduce the efficacy of a post- emergence application. For both pre and post-emergence treatments, rainfall or irrigation within one week of spraying is necessary to optimise residual control. For pre-emergence use, GROGARD should be applied to a clean soil surface with a firm fine tilth and good soil moisture.

DIRECTIONS FOR USE:

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

CROP	RATE	NOTES
Lucerne (Established)	830g-1.1kg/ha in 200-300 litres of water/ha	Stands must be at least 2 years old. Use in a mix with 2-3 litres of paraquat 20% a.i. Lucerne must be completely dormant and closely grazed. Apply preferably in mid-winter. Use the higher rate for clovers or where longer residual control is required. Do not exceed the higher dosage rate as yield may be affected.
Orchards: - Pip fruit - Citrus - Grapes - Kiwifruit	3.3-4.4 kg/ha in 200-300 litres of water/ha	Do not apply to trees/vines less than one year old or plants growing in light sondy loam soils. Pre-emergence: Apply in spring to weed-free soil. Post-emergence: To control established weeds tank mix with glyphosate at recommended label rates.
Maize and Sweetcorn	1.7-2.0 kg/ha in 200-300 litres of water/ha	Pre-emergence: Addition of a suitable herbicide is needed to control grass weeds. Apply to a freshly worked seedbed after the crop has been sown but before the seedlings have emerged.
	1.7 kg/ha in 200-300 litres of water/ha	Post-emergence: Apply to actively growing weeds no larger than 5cm high. Add a non-ionic surfactant at the recommended label rate. NOTE: where weeds such as fat hen are resistant to triazine herbicides an appropriate post-emergence herbicide such as DICAMBA is required for control.
Peas	830g-1.1 kg /ha in 200-300 litres of water/ha	Use the higher rate for dry conditions. Apply to a freshly worked seedbed after the crop has been sown but before seedlings have emerged. Do not use on light sandy soils or on soils which are low in organic matter.

CROP	RATE	NOTES
Industrial Weed Control	8.3-11 kg/ha	For long term residual weed control in non-crop areas such as roadsides, footpaths, pipelines, industrial storage and waste sites and around farm buildings. Add glyphosate at recommended label rates for the knockdown of existing vegetation and to control deep-rooted perennial weeds.

WITHHOLDING PERIOD: Lucerne - 28 days

FORESTRY: Radiata pine, Douglas fir, Eucalyptus species (E. delegatensis, fastigata, and saligna) GROGARD may be applied either pre-planting or as a release treatment over newly planted bare rooted trees. For optimum results, apply GROGARD to bare ground or when the weed

NOTE: Where grass weeds predominate, especially the more difficult to kill perennial grasses, it is recommended that GROGARD be tank-mixed with

an approved selective grass killer such as Clethodim 240g/litre at recommended

Broadcast Treatment: Apply 8.3-11.0kg GROGARD in 150-300litres of water/ha (refer application able for more detail). Spot Treatment: Carefully calibrate equipment to apply 0.83-11g GROGARD per square metre in sufficient water to obtain good coverage. Treat approximately two square metres around each tree (refer to the application table for suggested dilution rates).

Forestry Use:

PRODUCT	RATE		NOTES
	Broadcast Treatment Rate/ha applied in 150-300 litres of water/ha	Spot Treatment Rate/litre applied at 20ml spray solution per sq. metre	
GROGARD	8.3-11.0kg	42-55g	General broadleaf and grass weed control, where existing vegetation is below 10cm in height. Add a non-ionic surfactant at the recommended label rate.
GROGARD + Clethodim 240 + Emulsifiable crop mineral oil (adjuvant)	8.3-11.0kg 1 litre 1 litre/100 litres water	42-55g 3.5ml 10ml	For improved knockdown where gross weeds predominate and exceed 10cm in height.
	NOTE: Use the high		to control gorse seedlings

NOTE: Use the higher rate of GROGARD to control gorse seedlings

Registered pursuant to the ACVM Act 1997, No P9681. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to HSNO Act 1996, Approval Code: HSR000388. See www.epa.govt.nz for approval conditions

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.



20 JEAN BATTEN DRIVE MT MAUNGANUI FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz

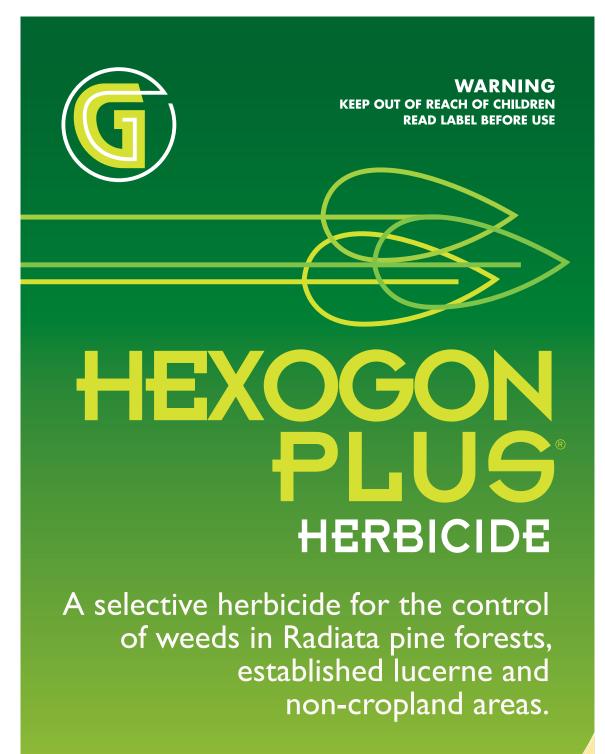
BATCH No:

GSGG002/B02

DATE OF MANUFACTURE:



GROGARD® is a Trade Mark of Grosafe Chemicals Ltd



ACTIVE INGREDIENT: Contains 900 g/kg hexazinone in the form of a water dispersible granule.

NET CONTENTS: 2.5kg



GSHP021/F03

HEXOGON PLUS

HAZARD CLASSIFICATION

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TOXICITY: Harmful if swallowed or inhaled. Serious eye irritant. May cause

ECOTOXICITY I function and the second of the second of the source of the source of the source second of the source of the source

hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area. Do ot apply directly into or onto water.

QUALIFIED HANDLER: This product must be under the control of a suitably qualified handler when mixing, loading or applying. RECORD KEEPING: Records of use as described in NZS 8409 Managemen

KECOKU KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 kg of HEXOGON PLUS is applied within 24 hours and likely to leave the application area. **PERSONAL PROTECTION**: When mixing or applying wear overalls, impervious gloves and eye/ face protection. Avoid contact with or inhalation of spray mist. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while wins Wich lakhing and expendence protection equipated by

thoroughly before meals and after work. Do not eat, drink or smoke while using. Wash clothing and personal protection equipment before re-use. **STORAGE:** Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodsluffs. Stores containing more than 100 kg are subject to requirements for signage, secondary containment and emergency response plans. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact the proprietor for further information about the use of this product if it is older than this. **SPILLS:** When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain spilled product and store in properly labelled, sealed drums for safe spilled product and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. DISPOSAL: Avoid contamination of any water supply with product or empty

PRODUCT DISPOSAL: If possible dispose of by using according to the label,

otherwise dispose of in an approved landfill. CONTAINER DISPOSAL: Crush and bury empty container in a suitable landfill. Do NOT use the container for any other purpose. SAFETY DATA SHEET: A safety data sheet is available from Grosafe Charaired bit

Chemicals Ltd.

FIRST AID: For advice if person feels unwell or experiences symptoms, call a doctor or the National Poisons Centre (0800 764 766). Have product container or label at hand. If swallowed, rinse mouth, give a glass or two of water but do NOT induce

vomiting. In case of inhalation of spray remove to fresh air and keep at rest in position comfortable for breathing. If in eyes, wash out immediately with running water for several minutes. Remove contact lenses, and continue rinsing. If irritation persists, get medical attention. If on skin, remove contaminated clothing immediately. Wash skin immediately with plenty of soap and water. EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)

GENERAL INFORMATION:

HEXOGON PLUS is a selective herbicide for the control of weeds in radiata pine, established lucerne and for non-selective weed control of annual and perennial weeds and brush in non-cropland areas. HEXOGON PLUS is absorbed mainly by the roots but some foliar absorption does occur. HEXOGON PLUS inhibits photosynthesis and is most effective when applied to actively growing weeds in warm weather conditions.

DIRECTIONS FOR USE:

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

APPLICATION: HEXOGON PLUS can be applied using all conventional spray equipment. Do not use strainers finer than 300 microns. Apply the product carefully to avoid spray drift onto adjacent sensitive crops.

MIXING AND COMPATIBILITY: HEXOGON PLUS mixes readily with water. While agitating, slowly add the required quantity of HEXOGON PLUS to a half-filled spray tank and continue filling. Maintain agitation during filling and spraying and agitate thoroughly after a stoppage before recommencing spraying. HEXOGON PLUS is compatible with other commonly used forestry herbicides. When using with liquid herbicides, add the HEXOGON PLUS first and ensure it is thoroughly mixed before adding the other herbicides.

RAINFALL: Delay spraying if rain is likely to fall within one hour following treatment. Note that rainfall subsequent to application is necessary to move the chemical into the root zone of the weeds.

RATES OF APPLICATION:

Radiata pine forests: Do not apply if stressed from drought, disease or Radiata pine forests: Do not apply if stressed from drought, disease or recent transplant. Do not use on light soils, soils low in organic matter or water-logged soils. Do not add a surfactant if applied over the top of trees. Site preparation: Prior to planting and before weeds have become established apply 2.1-8.3 kg of HEXOGON PLUS per hectare. Use the higher rates on heavy soils, in high rainfall areas, or for hard to kill weeds such as bracken, blackberry, seedling gorse, seedling broom, paspalum, kikuyu and Himalayan honeysuckle, or when weeds are actively growing. Release spraying: Apply only during the months of September and October otherwise tree damage may occur. For the control of broadleaf weeds and grasses, apply HEXOGON PLUS at 2.1-4.2 kg per hectare over the trees. For the control of bracken, blackberry, seedling gorse, seedling broom, paspalum, kikuyu and Himalayan honeysuckle apply 5.8-8.3kg of HEXOGON PLUS at 220-450 litres of water per hectare.

HEXOGON PLUS in 220-450 litres of water per hectare. Aerial Application: Foaming nozzle system – Apply in a minimum of 230 litres of water per hectare applied as two overlapping passes of 115 litres per hectare.

Spot release application: use 25g HEXOGON PLUS to 1 litre of water and apply 10-15 ml per square metre for broadleaf weeds and grasses and 20-30 ml per square metre for bracken, blackberry, seedling gorse, seedling 20-30 ml per square metre for bracken, blackberry, seedling gorse, seedling broom, paspalum, Himalayan honeysuckle and in high rainfall areas. When tank mixed with GROGARD 900 WDG: For release spraying, apply 1.7-2.5 kg of HEXOGON PLUS plus 6.7-8.3 kg of GROGARD 900 WDG per hectare. Use the higher rates on dense vegetation, hard to kill weeds such as Californian thistle, paspalum, seedling gorse and seedling broom, or where residual activity is needed to control summer germinating grasses. For spot applications, use 10g of HEXOGON PLUS plus 45 g of GROGARD 900 WDG in 1 litre of water and apply 15-25 ml of the mixture per square metre.

Lucerne (established): Use only on stands that have been established for at least 12 months. Apply when weeds are actively growing from October to January. The product may be applied after cutting or grazing. Some yellowing and growth reduction may occur. Do not apply if the crop is stressed (drought etc).
Apply 1.0 kg of HEXOGON PLUS in 300 litres of water per hectare for the control of annual poa, white clover, subterrane an clover, shepherds purse, sweet vernal, nodding thistle (after the flowering stalk has commenced to bolt) and mouse eared chickweed.
Apply 1.5 kg of HEXOGON PLUS in 200 litres of water per hectare for

- Apply 1.5 kg of HEXGGON PLUS in 300 litres of water per hectare for the control of browntop, storks bill, ragwort (after the seed head has bolted), woolly mullein and nodding thistle (at rosette stage).

Caution: Some yellowing of lucerne foliage and growth stunting may occur. To minimise these effects, do not apply on lucerne suffering from drought stress. Do not apply to rank lucerne growth. Lucerne up to 10cm is acceptable but the less lucerne leaf exposed the better. Brassica crops should not be sown within 12 months of an application of HEXOGON PLUS.

Non-cropland areas: Apply 4.2-8.3 kg of HEXOGON PLUS in 220-450 litres of water per hectare. For knapsack spraying, use 40-80 g in 10 litres of water per 100 square metres. For handgun application, use 500 g in 100 litres of water. Use higher rates on heavy soils, in heavy rainfall areas, or on hard to kill weeds such as paspalum, yarrow, Californian thistle, kikuyu and scrub weeds

Registered pursuant to the ACVM Act 1997, No P09574 odsafety.govt.nz for registration conditio

Approved pursuant to HSNO Act 1996, Approval Code: HSR000959. See www.epa.govt.nz for approval conditions

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the conduct manufacturer decl use of the product



20 IFAN BATTEN DRIVE MT MAUNGANUI 3116 POBox 14-450 Tauranga 31 FREE PHONE 0800 220 002 3143 info@grosafe.co.nz www.grosafe.co.nz

BATCH No:

DATE OF MANUFACTURE:

GSHP021/B05 HEXOGON PLUS and GROGARD are Registered Trade Marks of Grosafe Chemicals Ltd



WARNING KEEP OUT OF REACH OF CHILDREN READ LABEL BEFORE USE ECOTOXIC

HEXAGARD 750 HERBICIDE

For selective weed control in forestry and non-selective weed control in industrial situations

ACTIVE INGREDIENTS: 637.5g/kg terbuthylazine plus 112.5g/kg hexazinone in the form of a water dispersible granule.



Grosafe

HEXAGARD® 750



HAZARD CLASSIFICATIONS: ute oral loxicity, Category 4; Eye irritation, tegory 2; Specific target organ toxicity peated exposure) Category 2; Hazardous to uatic environment (acute and chronic exposure), tegory 1; Hazardous to soil organisms; zardous to terrestrial vertebrates. cute oral to:

WARNING: Harmful if swallowed. Serious eye irritant. May cause organ damage from repeated ingestion at high doses. ECOTOXIC: Very toxic to aquatic organisms and to the soil environment.

Harmful to terrestrial vertebrates.

Harmful to ferrestrial vertebrates. **Do not apply directly into or onto water.** Exposure to this product may injure or kill susceptible agricultural crops and native vegetation. Care should be taken to avoid spray to neighboring vegetation. It is recommended to conduct a site-specific risk assessment that considers the potential movement of spray drift downwind to sensitive areas. This includes assessment of the weather conditions cancient tangendurate tangendurate agricultural conditions, application equipment, topography and species of plants downwind

The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in the product leaching into round water

QUALIFIED HANDLER: This product must be under the control of a

ground water. **QUALIFIED HANDLER:** This product must be under the control of a suitably qualified handler during mixing, loading and application. **RECORD KEEPING:** If 3kg or more of this product is applied within 24 hours, in a place where the product is likely to enter the air or water and leave the application area, written records must be kept. **PERSONAL PROTECTION:** Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear overalls, boots, gloves and eye protection. Clean protective clothing daily ofter work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. **STORAGE:** Keep out of reach of children. Store in the original, tightly closed container, in a cool, dry area away from foodstuffs. Avoid temperatures below -5°C and above 35°C. Storage must be in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing 100kg or more require signage, secondary containment and an emergency response plan. **SPILLS AND DISPOSAL:** Exclude non-essential people from the area. Wear protective clothing and prevent product from entering waterways. Sweep up granules into labelled containers that can be sealed for reuse or disposal. Absorb a liquid spill with inert material such as soil or sand and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill. **DISPOSAL:** Dispose of this product only by using in accordance with this label, or at a suitable landfill. Dispose of safely to a suitable landfill. **DISPOSAL:** Dispose of this product only by using the runpose. **SAFETY DATA SHEET:** A safety data sheet is available from Grosafe Chemicals Ltd. Chemicals Ltd.

FIRST AID:

Call the National Poisons Centre 0800 POISON (0800 764 766) (24 hr) or a doctor for advice. If swallowed do not induce vomiting. Get medical advice if person feels unwell. If splashed in eyes, wash out medical advice it person teels unwell. It splashed in eyes, wash out immediately with running water for several minutes Remove contact lenses if present and easy to do, after the first few minutes. Continue rinsing. Get medical advice. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. EMERGENCY RESPONSE: 0800 CHEMCALL (0800 243 622)

This product is non-corrosive and almost non-abrasive and can be applied with boom spray (aerial) and conventional ground and spot spraying equipment. Use aerial application only for use in forestry plantations. Apply with well-maintained and calibrated spray equipment. Do not use strainers finer than 300 micrometres.

SPRAY DRIFT WARNING

Use this product carefully. Spray drift may cause serious damage to other desirable plants. Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area.

AERIAL APPLICATION:

To minimise the risk of damage from spray drift especially where susceptible vegetation is within 500 metres, use a coarse droplet (low drift nozzle) to minimize the production of small droplets (<100 microns). This product must not be applied when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.

MIXING

As settling may occur during storage, shake/stir well or reticulate before use. This product mixes readily with water. Measure the correct quantity into the partly filled tank then add the remaining water with agitation. The spray mixture should be kept continually agitated before and during spraying, and before spraying after a stoppage. Unused spray mixture may settle overnight.

CLEANING EQUIPMENT:

All spray equipment including pumps, spray tanks, lines and nozzles, landing gear (aircraft) should be thoroughly washed with clean water after each day of spraying.

RAINFALL

Rainfall within 3 hours following treatment may reduce effectiveness. Later re-treatment should be considered following heavy rain.

COMPATIBILITY: Compatible with most commonly used herbicides.

GENERAL INFORMATION

This product is a selective herbicide for the control of grass and broadleaf weeds in radiata pine forestry. Weeds controlled include: barley grass, black nightshade, brown top, catsear, chickweed, clovers, cocksfoot, doves foot, fathen, fireweed, Kentucky bluegrass, nodding thistle, poa spp, ratstail, redroot, ryegrass species, Scotch thistle, seedling gorse, seedling pampas, shepherds purse, storkbill, sweet vernal, tall fescue, willow weed, Yorkshire fog, seedling broom, plus annual grasses and broadleaf weeds. For preplanting a Grosafe glyphosate product may be added to the spray mix at approved label rates. May also be used as a non-selective herbicide in industrial areas.

DIRECTIONS FOR USE

Not for use on food or animal feed crops.

The maximum application rate is 16.2 kg HexaGard 750/ha with a maximum of two applications per calendar year and a minimum interval period of six months between applications.

End-use situation	Application	Use rate	Comment
Forestry, Radiata pine	Broadcast	10.0 - 13.3 kg in 150 - 300 litres of water	Apply prior to spring growth. Use higher rate where longer residual activity is required. For control of paspalum, kikuyu and other perennial grasses, the addition of an approved selective grass killer at label rates is recommended.
	Spot	1.0 - 1.33 g per square metre	Calibrate equipment to ensure sufficient coverage. For spot spraying the normal water rate is 15 -20 ml per square metre of area.
Non- cropland areas, Industrial areas, roadsides, footpaths, fencelines, etc	Broadcast	10.0 - 16.0 kg in 150 - 300L/ hectare	Apply sufficient spray to evenly cover the vegetation. Use the lower rate on light soils and the higher rate on soils with a high clay content and where long term weed control is desired. Where paspalum is present, add a Grosofe glyphosate product at approved label rates.
	Handgun	1.33kg in 100 litres of water	Apply in spring or autumn before major growth starts. Apply to give good even coverage of the vegetation ensuring that the application rate equates to around 1000 litres of spray mix per hectare.

Grosafe is a member of Agrecovery Rural Recycling Programme www.agrecovery.co.nz

Approved pursuant to HSNO Act 1996, Approval Code: HSR101467 a.govt.nz for app

WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.



20 JEAN BATTEN DRIVE MT MAUNGANUI 3116 POBox 14-450 Tauranga 3143 FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz

BATCH No:

DATE OF MANUFACTURE:

GSHXG385/B01 HEXAGARD® is a Trade Mark of Grosafe Chemicals Ltd





WARNING KEEP OUT OF REACH OF CHILDREN READ LABEL BEFORE USE ECOTOXIC

HERBICIDE

For selective weed control in forestry and non-selective weed control in industrial situations

ACTIVE INGREDIENTS: 610 g/kg terbuthylazine plus 140 g/kg hexazinone in the form of a water dispersible granule.



Grosafe

HEXAGARD[®] 750 EXTRA



HAZARD CLASSIFICATIONS te oral toxicity. Category 4; Eye irritation, egory 2; Specific target organ toxicity eated exposure) Category 2; Hazardous to afic environment (acute and chronic exposu egory 1; Hazardous to soil organisms; ardous to terrestrial vertebrates. sure)

WARNING: Harmful if swallowed. Serious eye irritant. May cause organ damage from repeated ingestion at high doses. ECOTOXIC: Very toxic to aquatic organisms and to the soil environment. Harmful to terrestrial vertebrates.

Do not apply directly into or onto water. Exposure to this product may injure or kill susceptible agricultural crops and native vegetation. Care should be taken to avoid spray to neighboring vegetation. It is recommended to conduct a site-specific risk assessment that considers the potential movement of spray drift downwind to sensitive areas. This includes assessment of the weather conditions, application equipment, topography and species of plants

downwind The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in the product leaching into

ground water. QUALIFIED HANDLER: This product must be under the control of a suitably qualified handler during mixing, loading and application. RECORD KEEPING: If 3kg or more of this product is applied within 24 hours, in a place where the product is likely to enter the air or water and leave the application area, written records must be kept. PERSONAL PROTECTION: Avoid contact with eyes and skin. Avoid is balatice of corray mist. When mixing or applying, wear overalls, boot and leave the application area, written records must be kept. PERSONAL PROTECTION: Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear overalls, boots, gloves and eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. STORAGE: Keep out of reach of children. Store in the original, tightly closed container, in a cool, dry area away from foodstuffs. Avoid temperatures below -5°C and above 35°C. Storage must be in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing 100kg or more require signage, secondary containment and an emergency response plan. SPILLS AND DISPOSAL: Exclude non-essential people from the area. Wear protective clothing and prevent product from entering waterways. Sweep up granules into labelled containers that can be sealed for reuse or disposal. Absorb a liquid spill with inert material such as soil or sand and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill. DISPOSAL: Dispose of this product only by using in accordance with this label, or at a suitable landfill. Dispose of sampt container to a suitable landfill. Do not burn. Do not use container for any other purpose. SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd. Chemicals Ltd.

FIRST AID:

Call the National Poisons Centre 0800 POISON (0800 764 766) (24 hr) or a doctor for advice. If swallowed do not induce vomiting. Get medical advice if person feels unwell. If splashed in eyes, wash out immediately with running water for several minutes Remove contact lenses if present and easy to do, after the first few minutes. Continue rinsing. Get medical advice. If skin or hair contact occurs, remove contact if a contact of the with ease and running water If contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. EMERGENCY RESPONSE: 0800 CHEMCALL (0800 243 622)

This product is non-corrosive and almost non-abrasive and can be applied with boom spray (aerial) and conventional ground and spot spraying equipment. Use aerial application only for use in forestry plantations. Apply with well-maintained and calibrated spray equipment. Do not use strainers finer than 300 micrometres.

SPRAY DRIFT WARNING

Use this product carefully. Spray drift may cause serious damage to other desirable plants. Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area.

AERIAL APPLICATION:

AERIAL APPLICATION: To minimise the risk of damage from spray drift especially where susceptible vegetation is within 500 metres, use a coarse droplet (low drift nozzle) to minimize the production of small droplets (<100 microns). This product must not be applied when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.

MIXING

As settling may occur during storage, shake/stir well or reticulate before use. This product mixes readily with water. Measure the correct quantity into the partly filled tank then add the remaining water with agitation. The spray mixture should be kept continually agitated before and during spraying, and before spraying after a stoppage. Unused spray mixture may settle overnight.

CLEANING EQUIPMENT:

All spray equipment including pumps, spray tanks, lines and nozzles, landing gear (aircraft) should be thoroughly washed with clean water after each day of spraying.

RAINFALL:

Rainfall within 3 hours following treatment may reduce effectiveness. Later re-treatment should be considered following heavy rain.

COMPATIBILITY: Compatible with most commonly used herbicides.

GENERAL INFORMATION

This product is a selective herbicide for the control of grass and broadleaf weeds in radiata pine forestry. Weeds controlled include: barley grass, black nightshade, brown top, catsear, chickweed, clovers, cocksfoot, doves foot, fathen, fireweed, Kentucky bluegrass, nodding thistle, poa spp, ratstail, redroot, ryegrass species, Scotch thistle, seedling gorse, seedling pampas, shepherds purse, storkbill, sweet vernal, tall fescue, willow weed, Yorkshire fog, seedling broom, plus annual grasses and broadleaf weeds. For preplanting a Grosafe glyphosate product may be added to the spray mix at approved label rates. May also be used as a non-selective herbicide in industrial areas.

DIRECTIONS FOR USE

Not for use on food or animal feed crops.

The maximum application rate is 16.2 kg HexaGard® 750 Extra /ha with a maximum of two applications per calendar year and a minimum interval period of six months between applications.

End-use situation	Application	Use rate	Comment
Forestry, Radiata pine	Broadcast	10.0 - 13.3 kg in 150 - 300 litres of water	Apply prior to spring growth. Use higher rate where longer residual activity is required. For control of paspalum, kikuyu and other perennial grasses, the addition of an approved selective grass killer at label rates is recommended.
	Spot	1.0 - 1.33 g per square metre	Calibrate equipment to ensure sufficient coverage. For spot spraying the normal water rate is 15 -20 ml per square metre of area.
Non- cropland areas, Industrial areas, roadsides, footpaths, fencelines, etc	Broadcast	10.0 - 16.0 kg in 150 - 300L/ hectare	Apply sufficient spray to evenly cover the vegetation. Use the lower rate on light soils and the higher rate on soils with a high clay content and where long term weed control is desired. Where paspalum is present, add a Grosafe glyphosate product at approved label rates.
	Handgun	1.33kg in 100 litres of water	Apply in spring or autumn before major growth starts. Apply to give good even coverage of the vegetation ensuring that the application rate equates to around 1000 litres of spray mix per hectare.

Grosafe is a member of Agrecovery Rural Recycling Programme www.agrecovery.co.nz

Approved pursuant to HSNO Act 1996, Approval Code: HSR101467 See www.epa.govt.nz for approval controls

WARRANTY: This formulation is warranted to contain the specified active ingredient Within accepts and anytical because when packed, there are a speciared active ingreases within accepts anytical because when packed. The user bears the risk for damage resulting from factors psychiat because the manufacturer's control. The manufacturer declines all liability for marge resulting from improper storage or use of the product.



20 JEAN BATTEN DRIVE MT MAUNGANUI 3116 POBox 14-450 Tauranga 3143 FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz

BATCH No:

DATE OF MANUFACTURE:

GSHXG392/B01 HEXAGARD® is a Trade Mark of Grosafe Chemicals Ltd



DANGER ECOTOXIC **KEEP OUT OF REACH OF CHILDREN READ LABEL BEFORE USE**

HORTCARE® COPPER HYDROXIDE 300 bio) (gro

6

A protectant fungicide for the control of a range of fungal and bacterial diseases of fruit and vegetables.

ACTIVE INGREDIENT: Contains 300g/kg copper as copper hydroxide in the form of a water dispersible granule





HORTCARE® COPPER HYDROXIDE 300

HSNO CLASSIFICATION:



Acute oral toxicity Category 4, Serious eye damage Category 1, Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) category 2, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.

TOXICITY

DANGER: Causes serious eye damage. WARNING: Harmful if swallowed. May cause an allergic skin reaction from prolonged contact. May cause lung damage from repeated oral exposure at high doses.

ECOTOXICITY

WARNING: Very toxic to aquatic organisms with long-lasting effects. Harmful to terrestrial vertebrates. Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Avoid contamination of any water supply with nical or empty container.

QUALIFIED HANDLER: A suitably aualified handler is required when mixing, loading or applying

PERSONAL PROTECTION: Use only outdoors or in well-ventilated area. Avoid breathing dust, mist or spray. When using wear a face mask or goggles, rubber gloves and overalls. Do not eat, drink or smoke while using. Wash hands and face before meals and after work. Wash protective clothing after use. Contaminated work clothing should not be allowed out of the workplace.

STORAGE: Store product in original container, tightly closed, in a cool, dry place. Keep out of reach of children, and away from foodstuffs. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing more than 100L are subject to requirements for signage, secondary containment and emergency response plans. Shelf life: When stored appropriately this product should show no significant degradation for two years from date of manufacture. Contact your supplier for further information about the use of any roduct that is older than this.

SPILLS AND DISPOSAL: When dealing with spills wear persona protective clothing and equipment as described in the PERSONAL PROTECTION section. Collect and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb, with soil, sand or sawdust, and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is navoidable, warn the local water authority.

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. CONTAINER DISPOSAL: Triple rinse and add rinseate to the spray tank. Take to an Agrecovery site, burn if circumstances, especially wind direction, permit or bury in a suitable land fill.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: For advice call a doctor or the National Poisons Centre (0800 764 766). Have product label or container at hand. If swallowed, rinse mouth but do not induce vomiting. Get advice if you feel unwell. If on skin wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice. If in eyes flush with plenty of water. Remove contact lenses if present after first few minutes and keep rinsing. Immediately get medical advice. If inhaled remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice if person feels unwell.

EMERGENCY RESPONSE 0800 CHEMCALL (0800 243 622)

GENERAL INFORMATION: Hortcare® Copper Hydroxide 300 is a dry- flowable formulation, easy to pour and measure and readily dispersed in water in the spray tank forming a stable suspension. MIXING INSTRUCTIONS: Half fill the spray tank with water, slowly add the required amount of Hortcare® Copper Hydroxide 300 while the agitation system is operating. Other products should be added only after the Hortcare®Copper Hydroxide 300 has been dispersed. Check compatibility charts before mixing. If phytotoxicity is in question (on tender foliage or when using high dose rates) test on a small area before full scale application. For optimum effect the spray mix should have a pH between 7.0 and 9.0.

WATER RATE: As a guide: for dilute high volume sprays use 200 litres (air assisted sprayers) or 800 litres (hydraulic sprayers) per hectare on vegetable crops, 2,500 litres on mature kiwifruit and grape vines, 3,000 litres on citrus and up to 6,000 litres on avocados and tree fruits. For low volume concentrate spraying calculate the dose in order to apply the same rate of Hortcare® Copper Hydroxide 300 as with dilute sprays. Full coverage is essential.

Resistance Management Strategy: Bacterial pathogens such as Psa can develop resistance to pesticides including copper products. To prevent resistance and retain all possible control options, use a programme that includes a range of products with different modes of action and do not apply below label rates

It is an offence to use this product on animals

WITHHOLDING PERIOD: 1 day

DIRECTIONS FOR USE

The following information is based on data believed to be reliable. If in doubt check with local advisers, compatibility charts, industry associations. To avoid risk to crops test a small area first. Grosafe Chemicals make no warranty, and assume no liability in connection with any of this information.

CROP	DISEASE	RATE g/100L	APPLICATION RATE, TIMING
Apples	Black Spot	110 (2.2kg/ha min)	Full cover spray. Apply between silver tip and green tip (max 1 cm green tip).
Asparagus	Stemphylium leaf spot	250—375 (2.5kg/ha min)	Spray at first appearance of disease, after closing up. Repeat at 14 day intervals. Up to six sprays may be required.
Avocado	Anthracnose	70–90 (2.0kg/ha min)	Apply monthly from flowering to harvest. Use higher rate and shorten the interval when conditions favour the disease.
Beans	Bacterial blight	250—310 (1.4kg/ha min)	Apply at 7–14 day intervals when plants reach 15cm high.
Bushfruit, Canefruit	Cane Wilt, Cane Spot, Spur Blight, Leaf Spot	70—90 (0.65kg/ha min)	Apply from bud burst at 10—14 day intervals. Use the higher rate early season or in conditions that favour the disease.
Brassica crops: Broccoli, Brussel Sprouts, Cabbage, Cauliflower	Downy Mildew	70–90 (0.3kg/ha min)	Apply at 10–14 day intervals following emergence or after setting out transplants.
Celery	Septoria Leaf Spot	90 (0.44kg/ha min)	After setting out transplants apply at 5–7 day intervals, depending on disease severity.EnSpray 99® spray oil may be added at 1 litre per 100 litres of spray mix.
Citrus	Melanose Verrucosis	45–90 (0.44kg/ha min for mature trees)	Apply before and after blossom.
	Brown Rot	90—110 (1.75kg/ha min for mature trees)	Apply in autumn to the skirts of the trees to a height of 1 metre, to the drip line and 50cm beyond. Use higher rate if conditions favour disease.
Cucurbits	Angular Leaf Spot, Downy Mildew	70—130 (0.65kg/ha min)	Apply at 7 day intervals when plants begin to vine.
Feijoas	Leaf Spot	70–90 (1.0kg/ha min)	Repeat as necessary.
Grapes	Black Spot, Downy Mildew	65—130 (0.9kg/ha min)	Apply at 10–14 day intervals from bud break to harvest. Adjust rate or stop if injury is observed.
Kiwifruit	Leaf Spot, Phomopsis sp., Botryosphaeria	70—90 (1.3kg/ha min)	Apply after harvest before leaf fall, after pruning, and two sprays four weeks apart prior to bud burst.
	Psa-V Pseudomonas syringae pv. actinidiae	70—90	Apply after harvest but before leaf fall, after pruning, and two sprays four weeks apart prior to bud burst.
		50-90	Use from bud-break to harvest, but do not apply during flowering. Apply full ditute water rate, appropriate for the canopy density to give complete coverage. While efficacy and safety are not yet fully proven, it is recommended that the lower rate be applied to young, soft growth moving to the high rate as leaves mature. Apply alone, post-flowering, as tank mixing with other chemicals may result in phytotoxicity.
Lettuce	Downy Mildew	70—110 (0.33kg/ha min)	Apply at 7–10 day intervals following emergence or after setting out transplants.
Onions	Downy Mildew Bacterial Blight	90 (1.0kg/ha min)	Apply at the first sign of infection and repeat every 10–14 days as required.
Passionfruit	Septoria Spot, Brown Rot, Grease Spot	45 (0.44kg/ha min)	Apply at 2–4 week intervals from November to March, alternating with maneb/mancozeb. For grease spot 2 week intervals may be required.
Peas	Downy Mildew Leaf Spot	70—90 (0.66kg/ha min)	Apply at 7–14 day intervals following emergence.
Pear (including Nashi)	Black Spot	110 (2.2kg/ha min)	Apply one spray between silver tip and green tip (max. 1cm green tip). Non-bearing trees: apply cover sprays at 14–21 day intervals until
	Fire Blight (Erwinia amylovora)	2545	vegetative growth ceases. Post Harvest: apply 190g/100 litres at 21 day: from harvest to leaf fall. Reduce interval in wet weather. Smooth skin varieties: do not apply between green tip and harvest or russeting may occur.
Pinus radiata	Pine Needle Blight (dothistroma pini)	2.5–4.4kg/ha (aerial/plantations) 1.25–3.1kg/ha (ground	Apply in 60–100 litres water in November or early December. Annual treatment may be required. Apply in 600–1,000 litre water/ha. with 1% Summer Oil. Begin in
Potato	Early Blight	spray in nurseries) 130–200 (1.21, (h	October and apply at 4 week intervals until planting out. Apply every 7 days when plant reaches 15cm high, until 14 days
Strawberries	Late Blight Leaf Spot	(1.3kg/ha min) 70–90 (0.65kg/ha min)	before harvest. Begin spraying when plants are established and repeat at 7–10 day internals through the coscon. Stan if sings of stop injury appear
Stone Fruit	Leaf Curl, Shot Hole, Bladder plum	(0.65kg/ha min) 110 (2.2kg/ha min)	day intervals through the season. Stop if signs of crop injury appear. Apply when buds are swelling, within one week before buds open, with a second application of 115g/100 litres water 10–14 days later.
	Bacterial Blast	312 (6.25kg/ha min)	Apply at leaf fall and repeat every 4 weeks until bud movement, then treat as for Leaf Curl.
Tamarillo	Leaf Spot	70 (0.9kg/ha min)	Apply when infection is seen.
Tomato	Early Blight, Late Blight, Bacterial	70–130 (0.8–1.75kg/ha)	Apply at 7–10 day intervals depending on weather conditions. Increase volume as crop matures; ensure coverage of upper and

Registered pursuant to the ACVM Act 1997 No. P 8704. See www.foodsafety.govt.nz for registration conditions Approved pursuant to HSNO Act 1996, Approval code: HSR000739. See www.epa.govt.nz for approval conditions WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product. Registered and distributed by:



Batch No:

20 Jean Batten Drive Mt Maunganui 3116 PO Box 14-450 Tauranga 3141 Tel: 0800 220 002 Email: info@grosafe.co.nz

Date of Manufacture:

Hortcare® and EnSpray 99® are registered trade marks of Grosafe Chemicals Ltd

BORON FERTILISERS



CONTINUOUS RELEASE BORON FERTILIZER

Organic granular fertilizer



25kg net

Contains 100g/kg boron in the form of magnesium and calcium borate compounds



PRODUCT DESCRIPTION AND SPECIFICATIONS:

GREENBOR" is a nuturally occuring Calcium/Magnesium Borate which releases at a slow rate but continuously into the soil in moist conditions. GREENBOR" contains 10% Boron

WARNING: May cause eye irritation and mild skin irritation. Avoid breathing dust

PRECAUTIONS: Read product label before use. Use of gloves and eye protection should not be necessary for normal use conditions, how protection is advisable if area is excessively dusty. Minimize dust accumulation. Avoid breathing dust. Wash hands thoroughly after handling.

FIRST AID: In case of poisoning or if exposed or concerned: Call the NZ POISON CENTRE (0800 764 766) or a doctor if you feel unwell. Have product container or label at hand. Eye contact: Hold eyelids apart and flush the eye continuously for at

least 15 minutes. Get medical attention if irritation persists.

Skin contact: Wash affected area with water. Ingestion: DO NOT induce vomiting.

Give water to drink. Get medical attention. Inhalation: If symptoms of nose or throat irritation occur or breathing is difficult, move to fresh air and keep at rest in a position comfortable for breathing. Begin artificial respiration if breathing has stopped. Get medical attention.

STORAGE: Store in a cool, dry place out of reach of children.

DISPOSAL: Dispose of empty packaging in normal rubbish collection to landfill or by burning in accordance with local Council regulations. Dispose of small quantities of unwanted product or residues to landfill. Consult local authorities for any special requirements.

CONDITIONS OF USE: The effectiveness of this product depends in part upon the correct methods of application, condition of the soil, climatic conditions and rainfall. As such no guarantee can be expressed or implied. If in doubt about the rate of application especially after longer term use of GREENBOR" get a follage analysis done and contact the supplier for more specific application rates.

Chengeta Crop Care 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 Chengeta Crop Care Trading Ltd's skill or judgment in purchasing or using the same and every person dealing with this product does so at their own risk absolutely. No representative of Chengeta Crop Care Trading Ltd has any authority to add or alter these conditions.

Application Rates:

GREENBOR" is designed to be applied annually at the following rates if soil results indicate the need for boron

Orchard Crops (Apples, Kiwifruit, Grapes)	25 - 40 kg/ha
Avocados	25 - 60 kg/ha
Brassicas and forage crops	25 - 40 kg/ha
Potatoes	25 - 40 kg/ha
Pastures	15 - 40 kg/ha

The above application rates will provide season long availability.

Soil test results will indicate whether additional amounts are required for the season



Product N. 01BV011, V02

Last review: 08/02/2019





CAS No. 1319-33-1

CHEMICAL SPECIFICATION

Component	Content
Boric Oxide (B ₂ O ₃)	32.2 % Expected
Boron (B)	10% Expected
Boric Oxide (B ₂ O ₃)	30.6 % Mínimum
Calcium Oxide (CaO)	< 19 %
Sodium Oxide (Na ₂ O)	< 12 %
Potassium Oxide (K ₂ O)	< 2 %
Magnesium Oxide (MgO)	1 – 2 %
Silicon Oxide (SiO ₂)	3 – 5 %
Chloride (Cl)	4 - 6 %
Sulphate (SO ₄)	5 - 8 %
Moisture (H ₂ O)	< 1 %

GRANULOMETRY	Malla A.S.T.M	mm	Range(%)
SPECIFICATION	5	4.00	0 - 5
	10	2.00	95 - 100
BULK DENSITY			t/m ³
	Typical Rank		0.60 - 0.80

PACKING

800 kg Polypropylene big bags.

ADDITIONAL INFORMATION

The above specification are established and guaranteed by the following Inkabor Analytical Methods.





20 JEAN BATTEN DRIVE MT MAUNGANUI 3116 POBox 14-450 Tauranga 3143 FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz

www.inkabor.com





INKABOR BOLI/VA S.R.L. Olicine: Calle Presibilion Medine 2760, Zona Soporachi Baja, La Paz Belvie Plante: Canetera Capitothoa Kon, 1 % Urb, Florida Ouro-Boliela Tel., +521 2 2424349 (Glicinet) + 591 2 5242833 (Planta) MIT 256274020 www.insabor.bo... alogi nkabor.com

				FECHA/DATE: 31/01/2022	
CERTIFICADO DE ANAL	ISIS - CERTIFICAT	E OF ANA	LYSIS	LAB No.:	
				CC-CA-051 FACTURA ND. /INVOICE NO. 00000077	
PRODUCTO / PRODUCT: FERTIBAGRA 100	IDAD / QUANTITY: 26.6000 TM				
CLIENTE / SUVER: PAIS PRIME TRADING LIMITED				/ COUNTRY NEW ZEALAND	
	ANALISIS QUIMIC	O /PARAMET	ERS		
	B ₂ O ₃	32.00%			
	CI	5.98%			
	CaO	15.51%			
	MgQ	1,98%			
	NarO	8.33%			
	K ₂ O	0.52%			
	Fe ₂ O ₃	0,20%			
	SIO ₂	3.61%			
	SO.	3.74%			
	Fb	23.0 ppm			
	Cu	5.3 ppm			
	Ni	7.6 ppm			
	Cr	2.4 ppm			
	Zn	29.0 ppm			
	As	38.3 ppm			
	Cd	2.6 ppm			
	Hg	<4 ppm			
	ANALISIS GRANULOME PROGESSIVE GRANUL				
	MALLA/ MESH A.S.1	T.M. Nº	W >		
	5		13.37		
	10		89.20		
F_P	OTE/LOT RODUCCION/PRODUCTIC ENCIMIENTO/EXPIRATION		20/11/20 20/11/20		
	OC: P2				
Registered and distributed by:	OC: P2	13147	_		

FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz





Last review: 08/02/2019



TECHNICALSPECIFICATION FertiBagra 15G Granular 2-4 mm

CAS No. 92908-33-3

CHEMICAL SPECIFICATION

Component	Content
Boric Oxide (B ₂ O ₃)	48% Expected
Boron (B)	15% Expected
Boric Oxide (B ₂ O ₃)	46 % Mínimum
Calcium Oxide (CaO)	< 20 %
Sodium Oxide (Na ₂ O)	< 14 %
Potassium Oxide (K ₂ O)	< 2 %
Magnesium Oxide (MgO)	1-3%
Silicon Oxide (SiO ₂)	3 – 5 %
Chloride (Cl)	4 - 6 %
Sulphate (SO ₄)	5 - 8 %
Moisture (H ₂ O)	< 1 %

GRANULOMETRY	Malla A.S.T.M	mm	Range (%)
SPECIFICATION	5	4.00	0 - 5
	10	2.00	95 - 100
BULK DENSITY			t/m ³
	Typical Rank		0.70 - 0.85

PACKING

700 kg Polypropylene big bags.

ADDITIONAL INFORMATION

The above specification are established and guaranteed by the following Inkabor Analytical Methods.





20 JEAN BATTEN DRIVE MT MAUNGANUI 3116 POBox 14-450 Tauranga 3143 FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz



istes Association





CERTIFICADO DE ANALISIS - CERTIFICATE OF ANALYSIS			FECHADATE. 31/01/2022	
			LAB No.: CC-CA-052 FACTURA No. /INVOICE No.:	
PRODUCTO / PRODUCT			CANT	DODDD75
FERTIBAGRA 16G				24.5000 TM
CLIENTE / BLIVER: PRIME TRADING L	IMITED			NEW ZEALAND
	ANALISIS QUIMICC	PARAMETE	RS	
	6 ₇ 0 ₃	46.16%		
	CI	6.39%		
	GaO	15.57%		
	MgO	1.90%		
	NavO	9.65%		
	K,O	0.54%		
	Fe ₂ O ₂	0.07%		
	SiO,	4.22%		
	so.	4.38%		
	Ph	30.2 ppm		
	Gu	5.5 ppm		
	191	7.0 ppm		
	Gr	6.0 ppm		
	Zn	40.1 ppm		
	As	24.6 ppm		
	Cd	1.6 ppm		
	Hg	<4 ppm		
	ANALISIS GRANULOME PROGESSIVE GRANUL			
	MALLA/ MESH A.S.T	M.Nº	55 >	
	5		11.30	
	10-		95,70	
Nº LOTEALOT. V. PRODUCCION/PRODUCTION. V. VENCIMIENTO/EXPIRATION:			1-0 25/10/20 25/10/20	
	OC: P21	1315T		

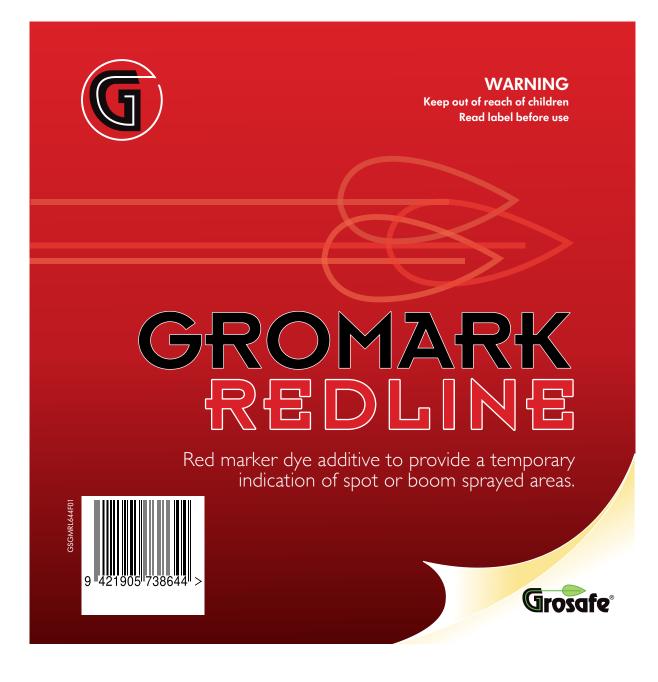
Grosafe[®] 20 JEA MT M POBo FREE

CHEMICALS LTD

AT MAUNGANU 3116 POBox 14-450 Tauranga 3143 FREE PHONE 0800 220 002 info@grosafe.co.nz www.grosafe.co.nz



MARKER DYE



GROMARK REDLINE



HAZARD CLASSIFICATIONS: Acute oral toxicity Category 4, Skin irritation Category 3, Eye irritation Category 2, Specific target organ toxicity single exposure Category 2 Hazardous to terrestrial vertebrates

WARNING: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Harmful to terrestrial vertebrates.

ENVIRONMENT: Avoid release to the environment. Do not apply directly into or onto water. Avoid contamination of any water supply with product or empty container.

PERSONAL PROTECTION: When mixing or loading wear protective gloves and eye/face protection. Avoid breathing vapours. Wash hands thoroughly after handling. Contaminated work clothes should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. **STORAGE:** Store in original container, tightly closed and away from foodstuffs. Store in a locked, cool dry well ventilated area avoiding sunlight

and extreme temperatures. **SHELF LIFE:** When stored appropriately this product should show no significant degradation for two years from date of manufacture. Contact

your supplier for further information about the use of any product that is older than this.

SPILLS AND DISPOSAL:

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill. Avoid contamination of any water supply with product or empty container.

CONTAINER DISPOSAL: Triple rinse containers when empty and add residue to the spray tank. Recycle container via Agrecovery

(www.agrecovery.co.nz) or at an approved landfill.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID:

If exposed or concerned, get medical advice. Have product label or safety data sheet on hand. For advice call a doctor or the National Poison Centre (0800 764 766). IF ON SKIN: Wash with plenty of soap and water. Remove immediately all contaminated clothing. IF SWALLOWED: Rinse mouth with water. Do not induce vomiting. Call the NATIONAL POISON CENTRE or doctor for advice. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If skin irritation or rash occurs or if eye irritation persists, get medical attention.

EMERGENCY RESPONSE: 0800 CHEMCALL (0800 243 622)

GENERAL INFORMATION:

GroMark RedLine is a low toxicity, non-corrosive dye but it is intense and persistent. **GroMark RedLine** is an intense red marker dye that will identify any area that has been sprayed. The use of this product will help cut wastage due to double spraying, as well as increasing the accuracy of spraying. Care should be taken to avoid getting spray onto unwanted areas. Spillages are likely to cause some permanent discolouration.

MIXING:

Shake well before use.

Add **GroMark RedLine** dye to partly filled spray tank and thoroughly mix before adding any herbicide. Maintain agitation through filling and spraying.

DIRECTIONS FOR USE:

Use between 50mL and 100mL of **GroMark RedLine** per 100 litres of water to achieve the desired colour intensity.

COMPATIBILITY:

GroMark RedLine is compatible with most commonly used crop protection products.

Approved pursuant to the HSNO Act 1996 HSR002503 See www.epa.govt.nz for approval controls.

WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Date of Manufacture:

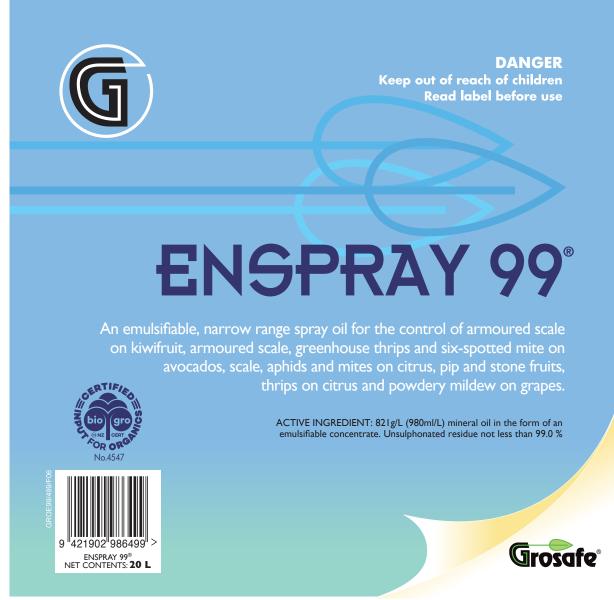


Grosafe Chemicals Ltd 20 Jean Batten Drive Mt Maunganui 3116 POBox 14-450 Tauranga 3141 Tel: 0800 220 002 Email: info@grosafe.co.nz www.grosafe.co.nz

Batch No:

GSGMRL644/B01

58



ENSPRAY 99®

HAZARD CLASSIFICATIONS: Aspiration hazard Category 1, Eye irritation Category 2, Designed for biocidal action.

TOXICITY:

!

DANGER: May be fatal if swallowed and enters airways. Serious eye irritant. ECOTOXIC:

Designed for biocidal action. Do not apply directly into or onto water. Avoid contamination of any water supply with product or empty container. **PERSONAL PROTECTION:** When mixing or loading wear overalls, impervious

gloves and eye/face protection. Avoid breathing spray mist. Wash hands and exposed skin after work. STORAGE: Store in original container tightly closed and in a locked, dry, cool,

well ventilated area, away from foodstuffs. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact the distributor for further information about the use of this product if it is older than this.

SPILLS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain and absorb with suitable inert absorbent material and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill. **CONTAINER DISPOSAL:** Triple rinse container and add residue to mixture.

Dispose of via an approved recycler.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: For advice call a doctor or the National Poisons Centre (0800 764 766). If medical advice is needed, have product container or label at hand. If swallowed, do NOT induce vomiting. Immediately call the National Poisons Centre or doctor for advice. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. If on skin, wash with plenty of soap and water. If irritation occurs, get medical advice.

EMERGENCY RESPONSE - 0800 CHEMCALL (0800 243 622)

GENERAL INFORMATION: EnSpray 99 $^{\circ}$ is a highly refined narrow distillation range spraying oil which contains emulsifiers to facilitate mixing with water. It is an offence to use this product on animals.

DIRECTIONS FOR USE: Mixing Instructions: Pour the required amount of water into the mixing tank then add EnSpray 99[®] and agitate well. When mixing with other pesticides add the other product first, according to the manufacturer's instructions, then add the EnSpray 99[®] last. Maintain continuous agitation while spraying. Equipment: Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the management of Agricultural Charginet (NIZS 940). Apply on humb result and a policitien mathede Chemicals (NZS 8409). Apply only with ground-based application methods. Restraints: Do not spray under conditions that cause slow drying: i.e. low temperatures, high humidity. Do not spray in the late evening or early morning or during the hours of darkness: this could cause damage to the fruit. **COMPATIBILITY: EnSpray 99**[®] is believed to be incompatible with folpet, captan, carbaryl and dodine, and should not be applied within 4 weeks of these

products, or within 14 days of applications of sulphur or lime sulphur, once crop growth has commenced. As information is gained recommendations may change: consult your local adviser and the label of the proposed additive. If doubt remains['] do not mix products. WITHHOLDING PERIOD: 1 day.

RECOMMENDATIONS FOR USE: The rates suggested are for high volume spraying to run-off.

Crop / Pest	Rate and Timing	Comments	
Apples, Pears and Stonefruit - For the control of San Jose Scale, European red mite and aphids		Complete coverage is essential. If pest numbers are high, add a suitable insecticide.	
Notes:			

Notes:
1. Sensitive varieties: Do not spray Cox's Orange or Pippin later than early Green tip. Do not spray Gala between tight cluster and early fruit development.
2. In mixed blocks time the oil spray according to the earliest variety.
3. Monitor early varieties for bud swell at least 3 weeks in advance of normal timing.
4. Ensure crop is not under stress from drought or frost before application.

	Crop / Pest	Rate and Timing	Comments
	Avocados - For the control of armoured scale and greenhouse thrips.	1 litre /100 litres of water. Determine pest pressures by monitoring, or follow the high pest pressure recommendations as a precaution.	From late January to February apply two sprays one month apart. If pest pressure is high apply three sprays from Jan to April. May be applied once or twice, pre-flowering in Sept/Oct. Do not apply to plants under moisture stress.
_	For the control of six- spotted mite.	0.5 - 1 litre/100 litres of water.	To suppress six-spotted mite apply two sprays two weeks apart at first sign of infestation.
	Citrus - For the control of scale insects, aphids, citrus red mite and thrips.	1 litre /100 litres of water. Apply during spring and summer.	Complete coverage is essential. Do not apply to citrus trees in hot dry weather when trees are suffering moisture stress. If pest populations are high or mealy bug is a problem add suitable insecticide.
	Grapes - As a spray adjuvant for insecticides.	1 litre /100 litres of water. Apply from advanced bud swell to bud burst, mixed with a suitable insecticide.	EnSpray 99 [®] will assist the spreading, adhesion and penetration of the insecticide into the bark crevices.
	Powdery mildew control.	2 litres /100 litres of water.	Apply as a high volume spray to run-off. Repeat on a 7 - 10 day schedule. Allow a gap of 10-14 days pre and post a sulphur application. The action of EnSpray 99 ° is short lived; the use of a DMI fungicide may be required to maintain control over an extended break. May reduce the visible bloom on red varieties when used close to harvest. The use of this product may delay harvest by up to ane week.
	Kiwifruit For the control of Armoured scale (includingGreedy Latania and Oleander	Dormant to pre-flowering 1 litre/ 100 litres of water.	May be applied with oil compatible pesticide to control high pest numbers. Ensure crop is not under stress from drought or frost before application. Complete coverage is essential
	scales)	the risk of damage it is recommend HAYWARD - liter/100 lites of wa ofter fruit set to 35 days after fruit se the risk of fruit drop and care is esse of scale insects use 2 liters of InSpa- February. Note: The higher of liter rat under slow drying conditions. Gold3 - May be applied at 1 litre p after fruit set and then again in the si of these litters or at higher rate may and/or premoture fruit drop. NOTES: All applications should be accordance with the Coop Protect Use conventional airblast spray vo per hectars. The use of concentrat	cause pholotoxic damage to kiwifruit. To minimise led: 1Fe application of all sprays after March increases ntial. In orchard blocks with very heavy infestations argy 99° per 100 litres water during the month of te may result in unacceptable skin marking, especially er 100 litres water detween 14-21 days immediately cond or third week of February. Application outside result in unacceptable skin marking or fruit softening in response to a demonstrated need and be in ion Programmes for syspart kiwifuit. Jumes pat bloom of 2,000 to 2,200 litres of water e spraying or very high volumes of water id spray overlap and slow dying conditions.

Registered pursuant to the ACVM Act 1997, No P9104. See www.foodsafety.govt.nz for registration conditions Approved pursuant to HSNO Act 1996, No HSR 100946. See www.epa.govt.nz for approval conditions

WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered and distributed by:



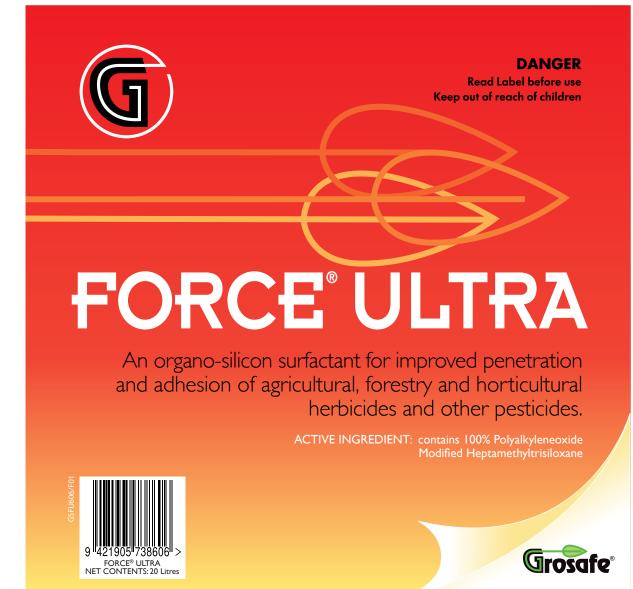
Grosafe Chemicals Ltd 20 Jean Batten Drive Mt Maunganui 3116 POBox 14-450 Tauranga 3141 Tel 0800 220 002 Email: info@grosafe.co.nz www.grosafe.co.nz

EnSpray 99® is a registered trademark of Grosafe Chemicals Ltd.

GROE99/B05 RECOVER

Batch No:

Date of Manufacture:



FORCE ULTRA®



HAZARD CLASSIFICATION: Acute inhalation toxicity Category 4, Serious eye damage Category 1, Hazardous to the aquatic environment chronic Category 2

TOXICITY: Harmful if inhaled. Causes serious eye damage. **ECOTOXICITY:** Toxic to aquatic life with long-lasting effects.

ECOTOXICITY: Toxic to aquatic life with long-fasting effects. Do not apply directly into or onto water. Take all reasonable steps to ensure the substance does not cause any significant adverse effects to the environment beyond the application area. PERSONAL PROTECTION: Avoid eye contact and inhalation of vapours/mist/spray. Use only outdoors or in well-ventilated area. When mixing or applying, wear overalls, impervious gloves, eye/face protection and respirator. Wash hands and exposed skin thoroughly after handling. Wash contaminated clothing and personal protective equipment before re-use. STORAGE: Store product in original container tightly closed and in a dry, cool, well ventilated area away from foodstuffs. When stored appropriately this product should show no significant degradation within 2 years from date of manufacture. Contact the proprietor for further information about the use of any product that is older than this. SPILLS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section.

Contain and absorb with suitable inert absorbent material and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable,

wind an spirodes immediately. It contamination of a dairs, streams, watercourses, etc. is anavoidable warn the local water authority. PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. CONTAINER DISPOSAL: Triple rinse container and add residue to mixture. Recycle empty containers through AgRecovery (0800 247 326). Otherwise bury in a suitable landfill.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: If medical advice is needed, have product container or label at hand. IF INGESTED: Rinse mouth with water. Call a POISON CENTRE or doctor for advice if you feel unwell. IF ON Kinse mount winn wale. Call of NIGON CENTRE of addom to davice in your leaf unweit. To ON SKIN: Wash skin with plenty of scorp and water. If skin irritation occurs get medical davice. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY call a POISON CENTRE or doctor. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622).

General INFORMATION: Force® Ultra increases the reliability of brush weed herbicides on weeds that are dormant, stressed due to hot, dry, frosty or dusty conditions or when previously grazed or mechanically slashed. **Force® Ultra** can also be used as a general purpose wetting agent with non-selective herbicides, including glyphosate in non-crop situations where the addition of a wetting agent is recommended. The addition of **Force® Ultra** can be used to reduce the rain-free period of brush weed herbicides. **Force® Ultra** also increases the visibility of the spray mix on the plant.

The following recommendations aim to control the egg masses of Cicada and Passionvine hopper. Spraying of Kiwifruit canes targets the control of populations that are within an orchard and will not affect external populations that may fly in. Accordingly, it is recommended to spray surrounding bush areas at the same time as orchard spraying takes place. It is also recommended to discuss treatment options with neighbours, as neighbourhood wide treatment will have a greater effect on overall control.

The Cicada eggs killed by this treatment are associated with the population that would emerge from the soil 2 or 3 summers after treatment, so no immediate effect should be expected. Ground spraying with Zespri approved insecticides in summer will complement this treatment by controlling the emerging Cicadas

Cicaads. The Passionvine hopper eggs controlled are the population that would emerge in summer following treatment, so control should reflect in lower populations of Passionvine hopper within treated orchards.

Orchard sprayer: Apply 1.2 litres in 600-800 litres/ha with Zespri approved insecticides. Application may commence once leaf fall in complete through to 10 days before bud breaking sprays are to be applied, however, the preferred liming is early in dormancy before pruning and before early egg hatch. Therough coverage of Kiwifruit canes is required for Cicade egg control and of old fruiting stalks and associated posts and wooden support structures for Passionvine hopper egg nest control.

Handgun application: Apply 100ml/100L with Zespri approved insecticides to the point of run-off. Spray surrounding bush areas with suitable spray equipment to get good coverage. Mahoe, blackberry, wineberry and bracken fern are favoured host plants for Passionvine hopper.

Application: Force[®] Ultra with Zespri approved insecticides may be applied day or night to dry plants. Force[®] Ultra with Zespri approved insecticides are rainfast once dry.

Zespri approved insecticides are toxic to bees if they are contacted by spray or land on wet spray deposits. Do NOT apply when bees are working and mow any flowering plants under vines before application

Force® Ultra will impart super wetting qualities for several days after application. Do not apply any other treatments to plants within 7 days.

RECOMMENDATIONS FOR USE: Aerial application: Add Force® Ultra to the spray mix at a minimum rate of 1.5 litres per hectare. For brush weed applications use a minimum of 400 litres of spray mix per hectare.

For brush weed applications use a minimum of 400 litres of spray mix per hectare. Broadcast spraying: Add 100m Force® Ultra per 100 litres of spray mix. Handgun, Knapsack, Mistblower: Add 100–200m Force® Ultra per 100 litres of spray mix. Mixing: To minimize foaming, add the required amount of Force® Ultra to the nearly full tank, after other products have been added. Agitate or circulate before spraying. Compatibility: Force® Ultra can be used with insecticides and fungicides – check pesticide product label for use rates. Force® Ultra is compatible with most commonly used water based marker dyes.

te per 100

Application method	Rate per 100 litres water	Comments	
With glyphosate formu	lations (Firstrate®	450, Hortcare [®] Glyphosate 360, 680) & Machette [®] 540	
Boom	100ml	Particularly beneficial for the control of ryegrass	
Handgun, knapsack	100–200ml	Use higher rate under unfavourable conditions or with hard to kill weeds	
Aerial: General weed control Bracken, Blackberry Broom Gorse	200ml 250ml 500ml 750ml	Use a minimum of 500ml per hectare Use a minimum of 2L per hectare Use a minimum of 2L per hectare	
With metsulfuron (Rep			
Handgun, knapsack	100–200ml	Use higher rate under unfavourable conditions	
Aerial, boom: Gorse Kanuka, Manuka	500ml 2.0 litres/ha	Use a minimum of 2L per hectare	
With brushkillers (Recl	aim® Brushkiller)		
Handgun, knapsack	100–200ml	Use higher rate under unfavourable conditions	
Aerial, boom: Gorse, Broom	2.0 litres/ha		
With Fungicides		•	
Handgun, knapsack	100ml		
In Kiwifruit with Zespri	i approved insect	icides	
Handgun	100ml	Use in dormant period. Follow instructions on the	
Orchard sprayer	1.2L in 600-800 litres water/ha	insecticide label	

ed pursuant to HSNO Act 1996, Approval Code: HSR 002503 See www.epa.govt.nz for approval conditions WARRANTY: This formulation is warranted to contain the specified active ingredient within accepted analytic tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer control. The manufacturer declines all liability for damage resulting from improper storage or use of the product

Distributed by:



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 20 Jean Batten Drive
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Force®, Firstrate®, Hortcare®, Reclaim®, Reply® and Machette® are the registered trademarks of Grosofe Chemicals Ud





Date of Manufacture: Batch No:

"We had a very big job at a remote/hard to access location, meaning we had to look at an alternative to liquid chemical. We found Grosafe's dry HexaGard 750 WDG to be perfect for our work. It was easy to handle and store, with the bags being easy to measure and mix, creating a very low foam product, hassle free application and excellent results".

Ginge Ryan Pilot, Eastland Heliservices, Gisborne

