



DANGER

Keep out of reach of children

ECOTOXIC

Read label before use

KNOCKDOWN PLUS[®] HERBICIDE

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.

GSKFD19/F02



Grosafe[®]

KNOCKDOWN® PLUS

HAZARD CLASSIFICATIONS:

Flammable liquid Category 4, Acute oral toxicity Category 4, Aspiration hazard Category 1, Eye irritation Category 2, Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment, (acute) Category 1, Hazardous to the aquatic environment (chronic) Category 1.



FLAMMABILITY

Combustible liquid. Keep away from heat, sparks, open flames and hot surfaces. No smoking.

TOXICITY

May be fatal if swallowed and enters airways. May cause an allergic skin reaction and serious eye irritation. May cause organ damage through prolonged or repeated exposure.

ECOTOXICITY

Very toxic to aquatic life and with long lasting effects. Hazardous to soil organisms. Hazardous 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 or apply near any body of water, avoid spray drift over, or spillage into water.

QUALIFIED PERSON: The person mixing, loading or applying this product must be suitably qualified.

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 kgs of KNOCKDOWN PLUS® is applied within a 24 hour period where the substance is likely to enter air or water and leave the application area.

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 protective clothing and equipment before reuse. Contaminated work clothing should not leave the work place.

STORAGE: Store locked up in original container tightly closed and in a dry, cool, well ventilated area away from foodstuffs. Keep out of reach of children. Storage of 100L or more requires signage, secondary containment and an emergency response plan.

In case of fire: Use water spray or foam.

SHELF LIFE: 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 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. If spilled, 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 immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, advise the local water authority.

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

LANDFILL 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: Do not use packaging for storage of any other products. Triple rinse empty container and add rinsate to spray tank. Recycle 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: For advice call the National Poison Centre, telephone 0800 POISON (0800 764 766) for advice. Have product container or label at hand.

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth with water. Immediately call a Poison Centre or doctor.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTRE or doctor if you feel unwell. Wash contaminated clothing before re-use.

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

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor for advice if you feel unwell.

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 300 micrometers. Clean equipment thoroughly after use with clean water. 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. Stock 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.

Gun Spraying

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® Penetrant 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 canes 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 Application

Apply with a calibrated aircraft using the half overlap-opposite pass technique. Use 200 - 400 litres of water per hectare. 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.
Note: The use of an organosilicone penetrant such as Force® Penetrant at 250ml /100L is recommended to improve control on 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 gorse 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.

For gorse, 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 broadleaf weeds. Apply 2 litres/ha. Some burning of fine turf grasses may occur.

Lawnboy: 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 www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSN0 Act 1996, Approval Code: No HSR100917
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 to and distributed by:

Grosafe
GROUP

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: