



WARNING

Keep out of reach of children

QUADBEET®

HERBICIDE

For the control of broadleaf weeds in
fodder beet, red beet and sugar beet.

ACTIVE INGREDIENT: Contains 60 g/litre phenmedipham,
60 g/litre desmedipham, 60 g/litre ethofumesate and 200 g/litre metamitron
in the form of a suspo-emulsion (SE).

GSQU796/F03



9 421902 986796 >

QUADBEET®
NET CONTENTS: 20 Litres

Grosafe®

QUADBEET®

HAZARD CLASSIFICATION:

Acute inhalation toxicity Category 4, Eye irritation Category 2, Skin sensitisation Category 1, Carcinogenicity Category 2, 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.

TOXICITY: Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause organ damage from repeated oral exposure at high doses. **ECOTOXICITY:** Very toxic to aquatic organisms and with long lasting effects. Not to be applied directly onto or into water.

Very toxic to the soil environment and harmful to terrestrial vertebrates.

Spray drift hazard. Apply this product carefully using ground based methods of application only. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area.

QUALIFIED HANDLER: This product must be under the control of a qualified trained handler when mixed, loaded or applied.

RECORDS: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3 kg of **QuadBeet®** is applied within 24 hours and likely to leave the application area.

PERSONAL PROTECTION: Avoid contact with eyes and skin. Avoid inhalation of spray mist. Use only outdoors or in well-ventilated area.

When mixing or applying, wear overalls, boots, gloves and eye protection. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using. Wash clothing and personal protection equipment before re-use.

STORAGE: Keep out of reach of children. Store in the original container, tightly closed, in a cool, dry and well ventilated area away from feed or foodstuffs. Avoid storage at temperatures below 5°C and above 35°C. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.

SPILLS: Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc. and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of product and contaminated waste safely to an approved landfill.

PRODUCT DISPOSAL: Dispose of product only by using according to the label directions. Alternatively dispose of safely at an approved landfill. Triple rinse empty container and add rinseate to the spray tank.

CONTAINER DISPOSAL: Recycle empty rinsed container. Otherwise crush and bury empty container in a suitable landfill. Do NOT use the container for any other purpose.

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

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

FIRST AID: If exposed or concerned, get medical advice. Call the National Poisons Centre 0800 POISON (0800 764 766) or a doctor. If swallowed do NOT induce vomiting. Rinse mouth. 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 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. Call the National Poisons Centre 0800 POISON (0800 764 766) (24 hrs) or a doctor for advice.

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)

RESISTANT WEEDS WARNING:

GROUP 5 + 15 HERBICIDE

Metamiton is a triazinone herbicide while desmedipham and phenmedipham are phenyl-carbamate herbicides. These have the inhibition of photosynthesis at photosystem II mode of action. Ethofumesate is a benzofuran herbicide with the non ACCase inhibition of lipid synthesis mode of action. Despite having two modes of action in **QuadBeet®**, certain individual biotypes may become resistant. Grosafe Chemicals Ltd. accepts no responsibility for losses that may occur from the failure of this product to control resistant weeds. To minimise the risk of these weeds dominating the population, use strictly in accordance with the label directions and use herbicides from alternative mode of action groups at other times. For further information see: www.resistance.nzpps.org

GENERAL INFORMATION

QuadBeet® is a post-emergence selective herbicide for the control of broadleaf weeds in fodder beet, sugar beet and red beet. **QuadBeet®** may be broadcast or band-sprayed using ground based methods of application only. For band treatment ensure that the use rate per sprayed area is consistent with label recommendations.

Do not apply **QuadBeet®** if air temperature is likely to rise above 29°C. Avoid treatment if rain is likely before spray has dried on foliage.

Do not apply **QuadBeet®** in more than 300 litres of water per hectare. Do not add any surfactants unless experience has shown them to be crop safe.

Adequate soil moisture both before and after application will improve control. Avoid application onto crops stressed due to drought, nutrient deficiency or other factors or following a frost as crop damage may occur. Ensure weeds are actively growing at the time of application otherwise poor weed control may result.

MIXING

Shake the container well before use. For large containers, roll and invert several times to ensure uniform re-suspension of the contents. Add the required quantity of **QuadBeet®** to the partly filled tank, then add the remaining water while agitating. The spray mixture should be kept agitated before and during spraying after a stoppage. Unused spray mixture may settle overnight.

ADJUVANTS: **QuadBeet®** contains surface active agents and does not normally require the addition of further surfactants or spray oils.

APPLICATION: Apply **QuadBeet®** using conventional boom spraying equipment which will be maintained and calibrated and set up to achieve complete coverage of all weeds. It may be broadcast or band sprayed using ground based methods of application only. For band treatment ensure that the use rate per sprayed area is consistent with label recommendations. Use a minimum of 200 litres of water per hectare. Do not apply in more than 300 litres of water per hectare.

RAINFALL: Avoid treatment if rain is likely before spray has dried on foliage.

COMPATIBILITY: **QuadBeet®** is considered to be compatible with Chlorpyrifos 500 EC, Clopyralid 600 SL and Chloridazon 650 WG but compatibility checks should still be carried out before mixing. It is preferable to apply **QuadBeet®** alone unless experience has shown the mix to be safe. Avoid tank mixing if the crop is stressed or damaged by wind, hail etc.

SUSCEPTIBLE WEEDS: Annual poa, black nightshade, clammy goosefoot, henbit, fathen, field pansy, fumitory, groundsel, redroot, sharp buttercup, shepherd's purse, spurrey, willow weed.

DIRECTIONS FOR USE

Use **QuadBeet®** at a rate of 2-5 litres per hectare. Apply a maximum of 10 litres/ha per season. Do Not exceed 3 litres/ha (red beet) and 5 litres/ha (fodder, sugar beet) of **QuadBeet®** in a single application. As weeds appear use as below at the appropriate rate for the crop stage and weed size present. For larger and denser weeds, sequential applications 7-14 days apart may be required.

QuadBeet® is best applied when the crop reaches the 2 true leaf stage. Some temporary damage may occur to plants that have yet to reach that stage. A pre-emergence application of ethofumesate will improve control.

RECOMMENDATIONS

Crop	Growth Stage	Rate	Remarks
Fodder beet Red beet Sugar beet	For use after emergence of the crop up to the 2 true leaf growth stage	2 litres/ha	Apply to actively growing seedling weeds at the cotyledon to 1st true leaf stage
Red beet	For use after the crop has 2 true leaves fully developed	3 litres/ha	Apply to actively growing weeds that have reached the 2-4 true leaf stage.
Fodder beet Sugar beet	For use after the crop has 2 true leaves fully developed	3-5 litres/ha	Apply to actively growing weeds that have reached the 2-4 true leaf stage. Use the higher rate when the majority of weeds are at the 4 true leaf stage or if henbit, nettle, spurrey or prostrate amaranth are dominant species.

WITHHOLDING PERIOD:

Fodder beet/Sugar beet: Do not graze stock on treated areas or feed stock with treated crops for 56 days after application.

Red beet: Do not harvest for 50 days after application.

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.

Registered pursuant to the ACVM Act 1997, No. P9423

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, Approval Code: HSR101145

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 GROUP

Grosafe Chemicals Ltd
20 Jean Batten Drive
Mt Maunganui 3116
P.O. Box 14-450 Tauranga 3141
Freephone: 0800 220 002
info@grosafe.co.nz
www.grosafe.co.nz

Batch No:

Date of Manufacture:

GSQU796/B04

QuadBeet® is a registered trademark of Grosafe Chemicals.

