

ECOTOXIC
KEEP OUT OF REACH OF CHILDREN

zelam

Quantum™

Selective Herbicide

For the control of broadleaf weeds in
winter and spring sown cereals except oats

H E R B I C I D E

NET CONTENTS: 5 LITRES

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PLEASE READ ENTIRE LABEL BEFORE MIXING OR APPLYING. SHAKE WELL BEFORE USE**ACTIVE INGREDIENT:** Contains 500g/litre diflufenican in the form of a suspension concentrate.**APPROVED HANDLER:** This product must be under the control of an approved handler during use.**RECORD KEEPING:** Records of use must be kept under certain circumstances. See MSDS for details.**WARNING:** May cause organ damage from prolonged oral exposure at high doses.**FIRST AID:** If swallowed DO NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT scrub the skin. If splashed in eyes, wash out repeatedly with water for at least 15 minutes. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.**PERSONAL PROTECTION:** When mixing or applying wear eye protection, chemical resistant gloves, boots and cotton overalls buttoned to the neck and wrist. Wash protective clothing daily after work. Wash hands and exposed skin before meals and after work.**ECOTOXICITY:** Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Harmful to the soil environment.**STORAGE:** Store in original container, tightly closed, away from foodstuffs.**SHELF LIFE:** When stored appropriately, this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.**DISPOSAL:** Dispose of this product only by using according to the label, or at an approved landfill, or other approved facility. Avoid contamination of any water supply with product or empty container.**MATERIAL SAFETY DATA SHEET:** Additional information is listed in the Material Safety Data Sheet available from Zelam Ltd or www.zelam.com**ERMA NEW ZEALAND:** Additional information is available from the ERMA NZ website - www.ermanz.govt.nz. Approval Code: HSR001647.

CROP	RATE	DIRECTIONS FOR USE
CEREALS Winter and spring sown wheat, barley, ryecorn and triticale	100ml/ha plus Multi-Film Extra 25ml/100 litres	Field pansy at cotyledon to 4 leaf stage
	200ml/ha plus Multi-Film Extra 25ml/100 litres	Field pansy at 4 to 6 leaf stage
	200ml/ha plus 1 litre/ha Twister™ (isoproturon 50SC)	Cotyledon - 4 leaf stage: Black nightshade, catchfly, chickweed, field pansy, henbit, hempenettle, mouse-eared chickweed, nettle, nipplewort, oxtongue, parsley piert, redroot, scarlet pimpernel, scrambling speedwell, shepherds purse, spurrey, twincrest, wild turnip. Cotyledon - 2 leaf stage: Seedling broadleaved dock, cornbind, dandelion, fathen, scentless chamomile, small flowered buttercup, sowthistle, vetch, willow weed, wireweed, yellow gromwell. Cotyledon - 1 leaf stage: Cleavers, fumitory. Older stages of weeds than specified above may only be severely checked or suppressed. Perennial weeds, especially those growing from root chips, will not be controlled.

GENERAL: Quantum must be applied to actively growing weeds but before they reach the maximum growth stages indicated above. Weeds at a more advanced stage may only suffer a temporary check. Susceptible weeds germinating after application will be controlled by residual activity.**Quantum** is most effective when soil conditions favour rapid growth; moist soil and high light intensity result in a rapid discoloration of target weeds. Weeds may take several days to die but they will no longer compete with the crop for moisture, light and nutrients. Dry soil conditions will reduce activity and drought affected weeds are less susceptible. **Quantum** should be applied to a fine, well prepared, moist, compact seedbed. Clods greater than 5 cm in diameter and surface trash may impair performance. **Quantum** should not be used on soils with an organic matter content over 10%.**Quantum** may be used on all varieties of wheat and barley at any growth stage up to jointing although it may cause slight crop yellowing, particularly on barley, under cool, wet conditions or on light soils. This condition is temporary and will not affect subsequent crop growth or yield. **Quantum** should not be applied to cereals undersown with grass or clover; or to oats or other cereals not listed; under drought conditions; or if severe frosts are expected.**MODE OF ACTION:** **Quantum** is both shoot and root absorbed giving good contact and residual activity against young seedling and germinating weeds. It acts by blocking the photosynthetic processes of the plant causing extensive bleaching and discoloration of new growth. It is particularly active on field pansy and some cruciferous species, but controls a broad spectrum of weeds.**SOIL RESIDUES:** After harvest thoroughly cultivate soil before sowing subsequent crops. In the event of a winter crop failure through drought or disease, replant in the spring only with wheat or barley after thorough cultivation.**RAINFALL:** Rainfall within 6 hours following treatment may reduce effectiveness.**COMPATIBILITY:** Compatible in tank mixtures with chlorsulfuron. DO NOT mix with any emulsifiable concentrate formulations.**APPLICATION:** Apply through any standard crop sprayer capable of giving uniform coverage at a spray volume of between 150-300 litres of water/ha. Use spray pressures of at least 200 kPa and select spray nozzles capable of producing fine spray droplets. CDA or aerial application is not recommended. Avoid overlapping or over dosing as this may cause crop injury.

Sprayer clean-up: To avoid injury to subsequently sprayed sensitive crops, thoroughly clean spray equipment with several rinses of clean water after use.

BEWARE: Apply this product carefully. Spray drift may cause serious damage to desirable plants. Ensure compliance with relevant air management plans. A strategy to minimise spray drift should be employed at all times when applying spray near aquatic environments.**NOTICE TO BUYER:** The manufacturer and vendors of **Quantum** warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.**REGISTERED TO:** Tapuae Partnership,
Hudson Road, New Plymouth, NZ
Tel: 06 755-9234 Fax: 06 755-1174**EMERGENCY PHONE:0800 CHEMCALL - 0800 243 6225**

BATCH NO:

D.O.M:

