

**HARMFUL ECOTOXIC**  
**KEEP OUT OF REACH OF CHILDREN**

**zelam**



**SPARK**™

**A selective Herbicide for  
pre-emergence weed control in maize**

**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

**ACTIVE INGREDIENT:** Contains 600g/litre acetochlor and 150g/litre metribuzin in the form of an emulsifiable 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.

**DANGER** May cause reproductive/developmental damage from repeated oral exposure at high doses

**WARNING:** May be harmful if swallowed, inhaled or absorbed through the skin, May cause skin sensitisation from prolonged skin contact. May cause organ damage from repeated 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 splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**PERSONAL PROTECTION:** When mixing or applying wear eye protection, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, chemical resistant boots and cotton overalls buttoned to the neck and wrist. Do not eat, drink or smoke while using.

**ECOTOXICITY:** Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. Not toxic to earthworms. Harmful to terrestrial vertebrates.

**STORAGE:** Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs.

**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, stream, etc.

**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.

**MATERIAL SAFETY DATA SHEET:** Additional information is listed in the Material Safety Data Sheet available from Zelam Ltd or [www.zelam.com](http://www.zelam.com)

**ERMA NEW ZEALAND:** Additional information is available from ERMA NZ website: [www.ermanz.govt.nz](http://www.ermanz.govt.nz). Approval code HSR000944

CROP	RATE	DIRECTIONS FOR USE
MAIZE	3 - 3.5 litres in 200 litres of water per hectare	Apply to a freshly prepared seedbed immediately after planting and before crop emergence. Use the higher rate on soils high in clay or organic matter content or where heavy infestations of weeds are expected. CAUTION. DO NOT use on sweet corn.

**WEEDS CONTROLLED:** Susceptible: Amaranthus, barnyard grass, bristle grass, charlock, chickweed, fathen, field speedwell, fumitory, Galinsoga, green bristle grass, groundsel, henbit, nettles, plantains, redroot, rough bristle grass, scentless chamomile, scotch thistle, seedling docks, seedling johnson grass, shepherd's purse, small-flowered buttercups, smooth witch grass, spurry, stinking mayweed, storksbill, summer grass, twin cress, white campion, wild radish, wild turnip, willow weed, witch grass, wireweed.

Moderately susceptible: Combind, black nightshade, sow thistle, seedling Californian thistle.

Resistant: Regrowth docks, giant buttercup, most deep-rooting weeds and most weeds over 4 leaf stage.

**MODE OF ACTION:** Acetochlor is absorbed primarily by shoots of emerging plants and affects protein synthesis, cell division and root elongation. Has an effective soil life of up to 10 weeks. Broken down by bacteria. Metribuzin is absorbed by the foliage and roots. Has contact action on emerged weeds and soil residual life to control subsequent weed germinations. Translocates upwards in the plant to inhibit photosynthesis. Only slightly water soluble.

**CROP ROTATION:** Because residues resulting from the use of this product could adversely affect following susceptible crops, do not plant crops other than those recommended for treatment without first sowing an indicator crop. To minimize soil residue effects, areas treated with Spark should be ploughed and thoroughly cultivated before sowing following crop.

**RAINFALL:** Best results will be obtained when application is made to a freshly prepared, fine, moist soil, free of trash, with at least 10mm of rain within one week of application. Application by pre-plant incorporation may be beneficial under very dry conditions.

**COMPATIBILITY:** May be tank mixed with most commonly used herbicides and insecticides.

**APPLICATION:** Use conventional application equipment and apply in at least 200 litres of water/hectare. Maintain agitation throughout spraying. The use of Telfon treated diaphragms and washers in pumps and valves is recommended.

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

**NOTICE TO BUYER:** The manufacturer and vendors of Spark 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,  
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