

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

**Zelam<sup>®</sup>**  
**ACTIVATED AMITROLE**  
**400**

**HERBICIDE**

**Contains:** 400 g/litre amitrole in the form of a soluble concentrate.  
Also contains 100 g/litre ammonium thiocyanate and 230g/litre sulphamic acid

**For non-selective control of many annual  
and perennial grasses, broadleaf weeds  
and selected brushweeds**



**PLEASE READ THE ENTIRE LABEL BEFORE MIXING OR USE. SHAKE OR STIR WELL BEFORE USE.**

**BEWARE: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.**

**HAZARD CLASSIFICATIONS:** 6.1E, 6.4A, 6.8B, 6.9A, 9.1B, 9.2A

**APPROVED HANDLER:** This product must be under the control of an approved handler during use. See MSDS for full details.

**RECORD KEEPING:** Records of use must be kept under certain circumstances. See MSDS for full details.

**DANGER:** May cause organ damage from repeated oral exposure at high doses.

**WARNING:** May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation. Avoid contact with eyes. May cause reproductive/developmental 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 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 immediately 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:** Avoid contact with skin or inhalation of spray mist. Ensure adequate ventilation when handling concentrate. Wear eye protection when handling the concentrate. Gloves should be worn at all times. Wash thoroughly after use and before eating.

**ECOTOXIC:** Toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. Selective herbicide, very toxic to some plant species.

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

**DISPOSAL:** Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill. Dispose of product only by using according to the label or at an approved disposal facility.

**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)

Approved pursuant to the HSNO Act 1996, No: HSR000422. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

Registered pursuant to the ACVM Act 1997, No: P006051 See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

#### DIRECTIONS FOR USE

CROP TYPE	RATE	CRITICAL COMMENTS
ASPARAGUS	8 - 10 litres in 400 litres water/ha	Apply before the first spears emerge or immediately after final cutting. Apply with a suitable residual herbicide. Do not apply during the cutting season or at the fern stage (severe damage may result).
BRUSHWEEDS	Handgun or knapsack: 10 ml/litre water Aerial: 25 litres in 200 - 400 litres of water/ha	Gorse and woolly nightshade - Apply to cover foliage and stems during active growth. Brownout is slow and may take up to 6 months. A follow up spray, crushing or burning may be necessary.
	15 - 20 ml/litre water	Blackberry - Apply to actively growing canes during November - May. Follow up by burning or crushing the canes the following autumn or spring and oversow with pasture species.
FORESTRY - radiata pine	0.3 ml ZELAM ACTIVATED AMITROLE 400 and 1.5 - 2 ml Terb 500 per m <sup>2</sup>	Calibrate the equipment carefully to deliver the required dose in sufficient water to obtain good coverage. Use the higher rate of TERB 500® if cocksfoot, browntop, californian thistle or seedling gorse are present. Applications can be made 2 - 3 weeks pre-plant or post-plant. For post-plant, apply before trees begin active spring growth and avoid the growing tip of the tree. Each spot should be a minimum of 2 square metres.
GENERAL WEED CONTROL AND SPECIFIC WEEDS	1 litre/100 litres water	Annual broadleaf weeds/easy to kill grasses - apply as light wetting spray to actively growing weeds.
	2 litres/100 litres water	Harder to kill weeds - Cape ivy, dock, Mercer grass, periwinkle, phragmites, purua grass, raupo, sheeps sorrel, wandering jew, wild onion. Apply to complete coverage. Repeat applications may be necessary.
	25 litres in 200 - 300 litres water/ha	Raupo - Aerial treatment - Apply in January - March.
NON-CROPLAND drains, fencelines, headlands, waste area	1 - 2 litres/100 litres water	Apply as a light wetting spray to actively growing weeds. Best results will be obtained from autumn treatment before frosts commence. Residual herbicides may be added to extend the period of control a frosts commence. Residual herbicides may be added to extend the period of control achieved.
PIPFUIT, KIWI FRUIT, GRAPES, WILLOWS, POPLARS, JAPANESE CEDAR & CASURINA	5 - 10 litres in 400 litres water/ha or 5 - 10 ml/litre water as a handgun or knapsack application	For the control of a wide range of grasses and broadleaf weeds use lower rates only when weeds are actively growing. Apply as a directed spray around the base of trees and vines avoiding run-off and needless soil contamination. Suitable residual herbicides may be added to extend the period and spectrum of weed control. CAUTION: Do not spray foliage or trunks of trees. Treat grapes and berryfruit when dormant and before bud burst. Apply to pipfruit before fruit set and again after harvest. Do not treat kiwifruit within 9 weeks of harvest. Do not apply around plants less than 3 years old unless local experience has shown it to be safe. Do not use on light sandy soils where root uptake may be a problem.
PRE-CROPPING	Californian thistle - Use 11 litres in 200 - 400 litres water/ha or 1 litre/100 litres of water as a spot treatment and apply to runoff - at least 1000 litres/ha. Couch and Indian doab - In pasture or fallow land prior to cropping, best results are achieved with stimulation of new growth by cultivation to break up the root system of established plants. Allow adequate time between cultivation and treatment for full foliage cover to develop to about 15cm tall. Ensure maximum shoot emergence. Use 12 - 15 litres in 200 - 400 litres of water/ha or 2 litres/100 litres of water as a spot treatment and apply to runoff - at least 1000 litres/ha. Use the higher rate for sod-bound couch and Indian doab in heavy soils. Plants must be a soft green colour and actively growing at treatment. Spraying while plants are dormant or under stress will not give satisfactory results. For maximum control, plough 14 - 21 days after treatment to completely invert the sod and bury all top growth. Surface cultivation can follow but care should be taken to leave the weed roots buried if possible.	

#### APPLICATION:

**Boom spraying** apply to give a complete and uniform spray coverage at a water rate of 200 - 500 litres of water/ha. **Aerial spraying** use the half overlap opposite pass flying technique and apply 200 - 400 litres of water/ha. **Spot treatment** using a gun or knapsack apply as a fine droplet to give uniform even coverage.

**WEEDS CONTROLLED:** Many annual and perennial grass and broadleaf weeds are controlled, including some difficult to kill species.

**SURFACTANT:** The addition of a non ionic surfactant such as **MULTI-FILM EXTRA®** is recommended for all applications.

**COMPATIBILITY:** May be tank mixed with paraquat, 2, 4-D amine, simazine, atrazine, terbuthylazine and most other non selective herbicides.

**RAINFALL:** Rain within 12 hours following treatment may reduce effectiveness.

**DRAINS:** Application to drains, ditches & irrigation channels must only be made when they are dry & at least one month is likely to elapse before the channels carry water.

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.**

**WITHHOLDING PERIOD:** Do not apply in kiwifruit orchards within 9 weeks of harvest or in pipfruit orchards between bud burst and harvest

#### RESISTANCE MANAGEMENT: **GROUP F3 HERBICIDE**

**ZELAM ACTIVATED AMITROLE 400** contains a triazole herbicide with the inhibition of carotenoid biosynthesis mode of action. Naturally occurring weed biotypes resistant to this herbicide could develop. These resistant weeds may dominate a population when **ZELAM ACTIVATED AMITROLE 400** or other related group F3 herbicides are used exclusively. To minimise this risk use strictly in accordance with label instructions and any resistance management strategies that may exist. For further information see [www.resistance.nzpps.org](http://www.resistance.nzpps.org)

**NOTICE TO BUYER:** The manufacturer and vendors of **ZELAM ACTIVATED AMITROLE 400** 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.

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**EMERGENCY PHONE: 0800 CHEMCALL 0800 243 6225**