HERBICIDE

For the control of grass and broadleaf weeds in FORESTRY, established LUCERNE, MAIZE, SWEETCORN, ORCHARDS and PEAS

Active Ingredient: 500g/litre terbuthylazine in the form of a suspension concentrate
**DIRECTIONS FOR USE**

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

**APPROVED HANDLER:** This product must be under the control of an approved handler during use. Inform your supplier of the name and address of the intended handler prior to purchase.

**STORAGE:** Keep out of reach of children. Store in the original, tightly closed container, in a cool, dry and well ventilated area away from feed or foodstuffs. Avoid temperatures below 5°C and above 35°C. Storage of certain quantities of this product trigger specific storage requirements (Refer to Safety Note). When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of product that is older than this.

**PERSONAL PROTECTION:** Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear overalls, boots, gloves and eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**USE:** Apply with well maintained and calibrated spray equipment.

**DISPOSAL:** Dispose of this product only by using in accordance with this label, or at a suitable landfill. Do not burn. Triple rinse container and add rinsate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose.

**ENVIRONMENTAL:** Use this product carefully. Do not contaminate aquatic environments with product, spray drift or empty container. Spray drift or equipment contamination may cause serious damage to desirable plants. Do not allow spray drift outside the target area to occur.

**FIRST AID**

If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminate 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 immediately for advice.

**Emergency Response**

In a transport emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).

**Spillage**

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 safely to a suitable landfill.

**Safety Data Sheet**

Additional information is provided in the safety data sheet. Freephone 0800 ORIONCP (0800 674 6627) or visit www.orioncp.co.nz.

**GENERAL INFORMATION**

Gardoprim® is a selective herbicide for the control of grass and broadleaf weeds in forestry, established lucerne and annual broadleaf weeds in maize, sweetcorn and peas.

**DIRECTIONS FOR USE**

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**FORESTRY - grass and broadleaf weeds**

**Radiata Pine, Douglas fir and Eucalyptus species (E.delegatensis, fastigata and siligra)** Gardoprim is a selective herbicide for the use in either pre-planting or over newly planted “bare-rooted” trees. Weeds controlled include Yorkshire fog, browntop, sweet vernal, ryegrass spp, Poa spp, cocksfoot, catsear, chickweed, seeding gorse, Scotch thistle, nodding thistles, clovers, annual grasses and broadleaf weeds.

**Rate of Application (Broadcast):** 15 - 20 litres of Gardoprim in 150 - 300 litres of water per hectare. Use the higher rate for gorse seedlings. A wetting agent such as Synergy™ WetterSticker should be added at manufacturer's label rates.

**Rate of Application (Spot Application):** Calibrate equipment carefully to deliver 1.5 - 2ml of Gardoprim per square metre in sufficient water to obtain good coverage. Treat 2 square metres around each tree where untreated surrounding vegetation could become rank and collapse to affect the planted tree. Include a wetting agent such as Synergy Wetter Sticker at manufacturer’s label rates to the spray mixture. A repeat application can be made 12 months later to release slow growing trees.

**Spotmix:** Mix 110ml of Gardoprim in 1 litre of water and apply 15 - 20ml of the mixture per square metre.

**Knapsack:** Mix 55ml of Gardoprim in 1 litre of water and apply 30 - 40ml of the mixture per square metre.

**Time of application:** Apply either to bare ground or existing vegetation not exceeding 10cm in height prior to spring growth in September. Note: For applications made later in the spring season, or for the control of difficult to kill perennial grasses like paspalum, kikuyu, couch and Mercer grass, the addition of an approved selective grass killer at label rates is recommended.

**LUCERNE (established) - grass and broadleaf weeds**

Gardoprim is absorbed through the roots and leaves of shepherds purse, storksbill, chickweed, subterranean clover, dovesfoot, barley grass, Kentucky bluegrass and some other annual seedling weeds.

**Rate of Application:** 1.5 - 2 litres of Gardoprim in a mixture with 2 - 3 litres of parathion 20% a.i., eg, PQ200™, per hectare. Use the higher rate when clover is a problem and longer residual activity is required. Do not exceed recommended rates of application as Lucerne yields may be adversely affected.

**Time of Application:** Apply to closely grazed Lucerne stands that are at least 2 years old. Do not spray immediately following heavy grazing - allow a few days for weed growth to freshen up. Apply during the winter months when Lucerne is completely dormant, but not when frost is still on the foliage or when ground conditions are excessively wet.

**WITHHOLDING PERIOD:** Lucerne...4 weeks

**MAIZE AND SWEETCORN - annual broadleaf weeds**

Gardoprim is absorbed through the leaves and roots of redroot, black nightshade, fatten and willow weed. Note: Some fatten plants may be resistant to products containing terbutylazine, and the use of a specific post-emergence herbicide such as Banvel® may be necessary to remove them.

**Rates and Times of Application - Pre-emergence:**

**3 litres of Gardoprim in 200 - 300 litres of water per hectare to actively growing weeds no more than 5cm high. The addition of a wetting agent should be made at manufacturer’s label rates.**

**ORCHARD CROPS (CITRUS, GRAPES, KIWIFRUIT, PIPFRUIT) - annual broadleaf weeds**

**Note:** Do NOT apply to trees or vines less than 1 year old, or where trees or vines are growing in light sandy soil.

**Rates and Times of Application - Pre-emergence:**

**6 - 8 litres of Gardoprim in 200 - 300 litres of water per hectare. Apply in spring to a weed free soil.**

**Post-emergence:**

**6 - 8 litres of Gardoprim in 200 - 300 litres of water per hectare. To control established weeds, tank mix with a contact herbicide such as Bash™ or PQ200.**

**PEAS - annual broadleaf weeds**

**Rate of Application:** 1.5 - 2 litres of Gardoprim in 200 - 300 litres of water per hectare. Use the higher rate under dry soil conditions.

**Time of Application (pre-emergence):** Apply to a freshly prepared seedbed after crop sowing but before emergence. A minimum of 10mm rainfall or irrigation within 1 week following application is necessary for herbicidal activity. Do not use Gardoprim in soil low in organic matter, or of a very sandy or stony texture.

**APPLICATION METHODS**

Gardoprim is non-corrosive and almost non-abrasive. Gardoprim can be applied with conventional ground and spot spraying equipment. Do not use strainers finer than 300 micrometres. Wash equipment thoroughly after use.

**MIXING**

Stir before use. Gardoprim mixes readily with water. Pour the correct quantity into the partly filled tank then add the remaining water with agitation. The spray mixture should be kept agitated before and during spraying after a stoppage. Unused spray mixture may settle overnight. **Note:** When using mixtures of Gardoprim and parathion 20% a.i. add the Gardoprim to the partly filled tank first, mix thoroughly, then add the parathion and remainder of the water with agitation.

**COMPATIBILITY**

Gardoprim is compatible with herbicides commonly used in forestry, lucerne, maize, sweetcorn and orchards.

**SOIL RESIDUES**

To minimise soil residues which could affect subsequent crops, areas treated with Gardoprim should be ploughed and cross-cultivated between crops to ensure maximum disposal of residues. Because residues may result from the use of Gardoprim, certain crops, for example tomatoes, cucurbitis, brassicas, lettuce and beans, should not be planted in areas previously treated with Gardoprim without first obtaining advice from your local Orion Crop Protection representative.

**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 pursuant to the ACVM Act 1997, No. P3342

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

Approved pursuant to the HSNO Act 1996, No. HSR000468

See www.epa.govt.nz for approval conditions.

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Net Contents: 5 Litres