

**COMBUSTIBLE LIQUID  
HARMFUL ECOTOXIC**  
Keep Out of Reach of Children

zelam

# PEND-X™

Selective herbicide for the control of annual grasses and broadleaf weeds in carrots, forest nurseries, transplanted lettuce, maize, onions, peas and selected fruit crops

H E R B I C I D E

NET CONTENTS: 5 LITRES

™ Trademark of Tapuae Partnership, NZ.

Registered Pursuant to the ACVM Act 1997, No. P5835. See [www.nzfsa.govt.nz/acvm/](http://www.nzfsa.govt.nz/acvm/) for registration conditions

**PLEASE READ ENTIRE LABEL BEFORE USE.**

**ACTIVE INGREDIENT:** Contains 330g/litre pendimethalin in the form of a emulsifiable concentrate. Also contains 564 g/litre hydrocarbon liquid.

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

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

**FLAMMABLE:** Keep away from naked flame.

**WARNING:** May be harmful if swallowed, inhaled or absorbed through the skin. May cause skin sensitiation from prolonged skin contact. 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 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. Gloves should be worn at all times. Wear eye protection when handling the concentrate. Ensure adequate ventilation when handling the concentrate. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Do not eat, drink or smoke while using this product.

**ECOTOXIC:** Warning - very toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container. Very toxic to the soil environment. Not toxic to earthworms.

**STORAGE:** Store in original container, tightly closed, away from foodstuffs.

**SHELF LIFE:** When stored appropriately, this product should show no significant degradation for 5 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

**DISPOSAL:** For containers of 20 litres or less, triple rinse container and add residue to working tank. Dispose of container at an approved landfill or other approved facility. Avoid contamination of any water supply, stream, etc.

**MATERIAL SAFETY SHEET:** Additional information is listed in the MSDS available from Zelman Ltd - [www.zelman.co.nz](http://www.zelman.co.nz)

**ERMA NEW ZEALAND:** Additional information is available from the ERMA NZ website - [www.ermanz.govt.nz](http://www.ermanz.govt.nz). Approval Code: HSR000551.

**DIRECTIONS FOR USE: WEEDS CONTROLLED:** Susceptible weeds: Barnyard grass, bristle grass, chickweed, fathen, field pansy, fumitory, henbit, scarlet pimpernel, shepherds purse, speedwell, spurry, summer grass, witch grass and wireweed. Moderately susceptible weeds: Black nightshade, combind, redroot, stinking mayweed, storksbill, wild oats. **Pend-X** will not control Californian thistle, couch or established weeds.

**NOTE:** Use the higher application rate on soils high in organic matter or clay content. **Do not** use on sweetcorn or on crops grown for seed.

USE	RATES	DIRECTIONS FOR USE
Carrots	3-5 litres in 150-400 litres of water/ha	Apply before emergence of both the crop and weeds.
Forest Nurseries Pre-emergence	4 litres in 500 litres of water/ha	Cupressus macrocarpa, Eucalyptus botryoides, E. fastigata, E. globulus, E. nitens, E. saligna, Pinus radiata - Apply as soon as possible after sowing. DO NOT apply as the crop is emerging.
	3 litres in 500 litres of water/ha	Acacia dealbata, A. decurrens, A. meamsii, A. melanoxylon - Apply as soon as possible after sowing. DO NOT apply as the crop is emerging.
	4 litres in 500 litres of water/ha	Pinus radiata - Apply 6-8 weeks after crop emergence.
	3 litres in 500 litres of water/ha	Eucalyptus botryoides, E. saligna - Apply 6-8 weeks after crop emergence
Letture - transplanted	4-5 litres in 150-400 litres of water/ha	Apply to a firm seedbed before transplanting. Irrigation or rain should follow as soon as possible after transplanting (at least within 7 days). Some initial crop suppression may be observed but final yields will not be affected.
Maize	5-6 litres in 150-400 litres of water/ha	Apply any time after planting up to the time the weeds reach the first true leaf stage. Use the higher rate on soils high in organic matter or clay content, or where difficult to control weeds are likely to be present. Additional weed control may be obtained by either tank mixing <b>Pend-X™</b> with atrazine, or apply atrazine as a follow up spray.
Onions Pre-emergence	1-1.5 litres in 150-400 litres of water/ha	Apply as soon as possible after sowing. DO NOT apply later than 4 days after sowing. Application close to crop emergence will result in crop damage. DO NOT use on coarse open soils particularly sandy soils.
	1.5-2 litres in 150-400 litres of water/ha	Apply to onions from the 2 <sup>nd</sup> true leaf stage. A further application may be made 2-4 weeks later but not after the 4 <sup>th</sup> leaf stage. Post-emergence treatments will not control established weeds but will extend the period of residual weed control.
Orchards - citrus, feijoa, grapes*, kiwifruit, nashi, pipfruit, stonefruit and tamarillos	5-6 litres in 150-400 litres of water/ha	Apply as a bare ground treatment. May be used around one year old trees in the year of planting. Avoid spray contact with green bark or drift on to green buds or foliage. <b>Pend-X™</b> may be mixed with knockdown herbicides if small weeds are present but should otherwise be applied to bare earth. Tank mixtures with simazine may be used where simazine safety has been proven.* grapes - apply during dormant season only.
Peas	3-6 litres in 150-400 litres of water/ha	Apply as soon as possible after sowing. Use the higher rate on soils high in organic matter or clay content. DO NOT apply in cold, wet or slow growing conditions.

**MODE OF ACTION:** It is absorbed by roots and shoots and inhibits growth processes relating to cell division and elongation. Affected plants die shortly after germination or following emergence from the soil.

**SOILS AND PREPARATION:** Weed control may be reduced where soil organic matter exceeds 6%. Seed beds should be fine and firm and free of clods, trash and ridges. DO NOT disturb with rolling or harrowing after application.

**PLANTING DEPTH:** The seed should be sown so that after consolidation it is covered by a minimum of 30mm of settled soil for maize and peas and 15mm for onions and carrots.

**APPLICATION:** Use conventional spray equipment fitted with either mechanical or bypass agitation. Use sufficient water to ensure accurate and uniform coverage - 150-400 litres/hectare. Thoroughly rinse out the sprayer with clean water after use.

**POST-EMERGENCE APPLICATIONS:** These will not control established weeds but will extend the period of residual weed control.

**FOLLOWING CROP RESTRICTIONS:** Under prolonged dry conditions or prolonged cold wet conditions certain crops are susceptible to injury when planted in soil previously treated with **Pend-X**. DO NOT plant sensitive grasses (such as ryegrass) or cucurbits or beets for at least 6 months following **Pend-X** application.

**RAINFALL:** 12mm rain: 10 days of application for optimum results. No drying time is required.

**Pend-X** may be applied prior to or during rain when applied before emergence. For post-emergence application, 3 hours drying time is recommended. Reduced weed control can be expected under dry conditions where no rain falls within 7-10 days following application.

**COMPATIBILITY:** May be tank mixed with most commonly used pesticides.

**NOTICE TO BUYER:** The manufacturers and vendors of **Pend-X** warrant the formulation to contain the specified active ingredient within accepted tolerance when packed but make no warranty of any kind on the use of this material and accept no responsibility for results, whether the material has been used in accordance with directions or not.

**REGISTERED TO:** Tapuae Partnership, New Plymouth, NZ.

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

BATCH NO:  
Pend-X

D.O.M:

