



**orion** AGRISCIENCE



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

# Topogard<sup>®</sup>

## HERBICIDE

For the selective post-emergent control of annual broadleaf weeds in PEAS and POTATOES.

**Active Ingredient:**

350 g/litre terbutryn plus 150 g/litre terbuthylazine in the form of a suspension concentrate.



**10 Litres**





PLEASE READ THE LABEL COMPLETELY BEFORE USE

**HAZARD CLASSIFICATIONS: 6.1D, 6.3B, 6.7B, 6.9B, 9.1A, 9.2A, 9.3C**

**WARNING: TOXIC, ECOTOXIC**

May be harmful if swallowed, inhaled or absorbed through the skin. May cause mild skin irritation. Limited evidence of carcinogenic effects in animal feeding studies. May cause organ damage from repeated ingestion at high doses Very toxic to aquatic organisms and to some plant species. Harmful to terrestrial vertebrates.

**PRECAUTIONS**

**APPROVED HANDLER:** This product must be under the control of an approved handler during use.

**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 0°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. 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 contaminated 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 ORIONAS (0800 674 6627) or visit

[www.orionagriscience.co.nz](http://www.orionagriscience.co.nz).

Batch No:

Date of manufacture:

TOPOGARD

**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. P3743

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to the HSN0 Act 1996, No. HSR000469

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

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## PLEASE READ THE LABEL COMPLETELY BEFORE USE

### GENERAL INFORMATION

Topogard is a selective herbicide for the control of annual broadleaf weeds in peas and potatoes. Topogard is not a hormone material and can be used near tomato, grape and other hormone sensitive crops. The action of Topogard, by absorption through the roots and the leaves, ensures a quick knockdown of weeds and provides residual weed control. Weed control may be less effective if application is made when weeds are in a dry, hardened growth condition. Providing the spray has dried on the weed foliage, rain following application is not harmful.

To avoid crop damage and to obtain satisfactory weed control, carefully observe the directions on this label and never exceed recommended rates of application.

**Weeds Controlled:** Annual poa, black nightshade, calandrinia, chickweed, annual mouse-ear chickweed, clovers (seedlings), cornbind, fathen, field pansy, fumitory, hedge mustard, henbit, redroot, scarlet pimpernel, scentless chamomile, shepherd's purse, speedwells, spurrey, storksbill, twin cress, wild turnip, willow weed and wireweed. For best results annual broadleaf weeds should be no greater than 4 true leaves, as larger weeds, especially storksbill and wireweed, are less susceptible.

**Note:** Californian thistle and other perennial broadleaf weeds are not controlled.

### DIRECTIONS FOR USE

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

Important: Before using Topogard ensure that equipment is completely cleaned of all traces of oil, surfactants or emulsifiable concentrate pesticides.



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### RATES AND TIMING OF APPLICATION

#### PEAS (Process, Garden and Field) – annual weeds

**Rate of Application:** 0.75 - 1 litre of Topogard in not less than 250 litres water per hectare using the lower rate when weeds are very small or when treating tender crops. Do **NOT** add a wetting agent.

**Time of Application:** Topogard must be applied to actively growing pea crops with 3 - 5 nodes, less than 15cm high, and not suffering from disease, wind damage, drought stress, or checked by unseasonal cold, wet conditions. As peas are a tender crop which depend on the waxy leaf surface for selectivity, use the crystal violet dye retention test to confirm the presence of sufficient leaf wax before spray application. After rain allow 2 - 3 days drying before application.

#### POTATOES – annual weeds

**Rate of Application:** 1 - 2 litres of Topogard in not less than 350 litres of water per hectare. Use the lower rate where scarifying for weeds is carried out before crop canopy closure.

**Time of Application:** Apply Topogard after rows are moulded, free from clods, and when the weeds are still small. Do **NOT** apply if more than 5% of the crop has emerged, as damage will result. In areas where the crop is left in the ground for long periods following maturity, the residual life of Topogard will be insufficient and weed reinfestation may occur.

### APPLICATION METHODS

Topogard can be applied with conventional ground spraying equipment. Care should be taken to avoid excessive overlapping. Topogard is non-corrosive and almost non-abrasive. Do not use strainers finer than 300 micrometres. Wash equipment thoroughly after use.

### MIXING

Pour the correct quantity of Topogard into a partly filled spray tank, then add the remaining water with agitation. The spray mixture should be kept continually agitated before and during spraying, and before spraying after a stoppage.

### COMPATIBILITY

Topogard contains surface-active agents and when spraying peas, the addition of further surfactants, emulsifiable or soluble concentrate pesticides, foliar fertilisers and nutrient sprays, must be avoided, as this will increase the risk of crop damage. Do **NOT** add MCPB or other herbicides as damage to pea crops may occur.

### RESISTANCE MANAGEMENT

GROUP **C1** HERBICIDE

Topogard contains terbutryn and terbuthylazine, group C1 herbicides belonging to the triazine chemical family. Some naturally occurring weeds may become resistant when excessive use of the same herbicide occurs. To prevent or delay the development of resistance, use in tank mixes and/or rotate use with herbicides with a different mode of action. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.