



**HERBICIDE**

# Torque<sup>®</sup>

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

Contains 400 g/litre amitrole in the form of a soluble concentrate

Also contains 95 g/litre ammonium thiocyanate and 230 g/litre sulphamic acid

**DANGER**

Keep out of the reach of children

Net Contents **20 LITRES**

**GROUP**

**34**

**HERBICIDE**



[agrisource.co.nz](http://agrisource.co.nz)



# READ LABEL COMPLETELY BEFORE USE



## TOXICITY DANGER

Causes organ damage from repeated oral exposure. Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

## ECOTOXIC

Very toxic to aquatic life with long lasting effects. Very toxic to the soil environment. Do not apply directly into or onto water. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

## RECORD KEEPING

Where 3kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.

## QUALIFICATIONS REQUIRED FOR USE OF THIS PRODUCT

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.

## HANDLING PRECAUTIONS

**Personal Protection:** Avoid contact with eyes, skin or inhalation of spray mist. Ensure adequate ventilation when handling concentrate. Wear eye protection and gloves. Do not eat, drink or smoke while using. Wash hands and face before meals and after work. When mixing or applying, wear appropriate personal protection including overalls, impervious, elbow-length gloves and eye protection. Wash hands and exposed skin before meals and after work. Wash and dry personal protective equipment before re-use.

**Equipment:** Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush spray equipment thoroughly with water after use.

**Storage:** Keep out of reach of children. Store in original container tightly closed and in a locked dry, cool, well-ventilated area, away from food stuffs, seeds and fertilisers. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing more than 100 L of **Torque** require signage, secondary containment and an emergency response plan.

**Shelf Life:** When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.

**Spillage:** Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

**Product Disposal:** Ensure disposal of unwanted product is by intended use or by another operator strictly in accordance with label directions.

**Container Disposal:** Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

**Safety Data Sheet:** If additional hazard or safety information is required, refer to the Safety Data Sheet. For a copy visit our website at [www.agrisource.co.nz](http://www.agrisource.co.nz)

## FIRST AID

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

## EMERGENCY RESPONSE

In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use high volume water jet to extinguish. In a transport emergency call 111, Police or Fire Brigade

## GENERAL INFORMATION

**Torque** is a non-selective herbicide that controls many annual and perennial grasses, broadleaf weeds and selected brushweeds in a range of situations.

## DIRECTIONS FOR USE

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 Kantor® is recommended for all applications.

## COMPATIBILITY

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

## RAINFALL

Rain within 12 hours following treatment may reduce effectiveness.

## DRAINS

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

## RESISTANCE MANAGEMENT

**Torque** contains a **GROUP 34 HERBICIDE** triazole 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 **Torque** or other related group 34 herbicides are used exclusively. To minimise this risk use strictly in accordance with label instructions and any resistance management strategies that may exist. Refer to the NZPPS website (<http://resistance.nzpps.org/>) for more detailed information.

## RECOMMENDATIONS

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 <b>Torque</b> and 1.5 - 2 ml Terb 50 <sup>SP</sup> 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 & 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, pura grass, raupo, sheeps sorrel, wandering jew, wild onion. Apply to ensure 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 as frosts commence. Residual herbicides may be added to extend the period of control achieved.
Pipfruit, Kiwifruit, 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 15 cm 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.

**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**

## WITHHOLDING PERIOD

Do not apply in kiwifruit orchards within 9 weeks of harvest or in pipfruit orchards between bud burst and harvest.

## CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.