

**orion** AGRISCIENCE



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

# Turbo<sup>TM</sup>

## 300

# HERBICIDE

A water soluble herbicide for non selective control of many annual and perennial weeds in the situations stated in the directions for use.

**Active Ingredient:**

300g/litre glyphosate as the dimethylamine salt in the form of a soluble concentrate.



**20 Litres**

## PLEASE READ THE LABEL COMPLETELY BEFORE USE

### HAZARD CLASSIFICATIONS: 6.1E, 6.3A, 6.4A, 9.1B

#### WARNING: TOXIC, ECOTOXIC

May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye and skin irritation. Toxic to aquatic organisms.

#### PRECAUTIONS

**APPROVED HANDLER:** This product must be under the control of an approved handler if applied onto or into water (otherwise not required).

**STORAGE:** Keep out of reach of children. Store in the original, tightly closed container, in a secure place away from feed or foodstuffs. 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. This product should only be mixed, contained in or sprayed by, equipment made from stainless steel, fibreglass, plastic, aluminium, brass or copper. A highly flammable gas may be formed from the contact of this product with galvanised or unlined steel. All spray equipment, including pumps, spray tanks, lines, nozzles, and landing gear (aircraft) should be thoroughly washed with water after each day of spraying.

**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. If accidental spraying occurs, immediately wash spray off foliage with plenty of water to minimise damage.

#### 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 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**.

#### GENERAL INFORMATION

Turbo 300 is a foliar absorbed and translocated herbicide for control of emerged weeds only. It does not have a residual effect. Plants should be actively growing, free of stress and with clean foliage at time of spraying. The effects of Turbo 300 may not be apparent for 3 - 7 days depending on weather conditions, weed species and the herbicide rate used. Some perennial weeds may not show effects for 14 - 21 days.

#### 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. P4602

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

Approved pursuant to the HSNO Act 1996, No. HSR000223

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

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™SILMAXX, SIMATOP, TILL-MATE, VOID and TURBO are Trade Marks of Orion AgriScience Limited.

**Registrant:** Orion AgriScience Ltd, Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch 8053

#### Turbo™

Batch No:

Date of manufacture:



AGRISCIENCE

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### APPLICATION

**Boom:** Turbo 300 can be applied in spray volume up to 200 litres per hectare using fan nozzles at pressures in the range of 240-280kPa. Boom height should be set so a double overlap of nozzle pattern is achieved at the top of the target plants.

**Aerial:** (Forest and non-crop areas only) Turbo 300 can be applied by aircraft in spray volumes of up to 100 litres per hectare. Increase spray volumes in hilly terrain to ensure maximum target contact. DO NOT use in intensive horticultural cropping areas.

**Handgun and Knapsack:** Ensure a fine spray pattern to give complete coverage.

**Wiper equipment:** Mix only enough for immediate use. Plants must be clean and dry and the wiper fully saturated. Apply up and down slopes for effective applications. High weed density: Reduce speed and apply twice in opposing directions.

### MIXING

Clean the spray tank of previous chemical residues, preferably with a chemical residue remover. Half fill the spray tank with clean water, add required amount of Turbo 300, then fill with clean water. Add surfactant where required. Agitate well before spraying. When tank mixing with other chemicals, add Turbo 300 after other water soluble products, but before flowables eg. Simatop™ 500FW. Turbo 300 can be deactivated by soil particles and hard water containing calcium salts. If hard water cannot be avoided, the addition of a pH Buffer is recommended.

### RAINFALL

Do not spray if rain is likely within 6 hours.

### WITHOLDING PERIODS

**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**

Poisonous plants, such as ragwort, may become more palatable to stock after spraying, and livestock should be kept away until plants have died down. Otherwise, withholding is not required for stock grazing. However, it is recommended that grazing is delayed for one day for annual weeds, and ten days for perennial weeds. This will allow Turbo 300 to penetrate the weeds for maximum effectiveness.

### RESISTANCE MANAGEMENT

GROUP G HERBICIDE

Turbo 300 contains the active ingredient glyphosate, which belongs to the glycine chemical group. Some naturally occurring weeds may become resistant when excessive use of the same herbicide occurs. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the weeds or crops listed on the label.

### DIRECTIONS FOR USE

Situations For Use		
Situations	Crop	Critical Comments
<b>Drains and Waterways</b>		1. Do not spray until 75% of the weed is above water level 2. Do not allow submergence for 6 hours post spraying
<b>Forestry</b> For control of all listed weeds prior to planting of forest or nursery or around established trees		1. For rates of weeds see Weed Table 2. Do not allow spray contact with established trees
<b>Industrial</b> As a knockdown or selective if spot spraying.		1. Treat weeds as per Weed Table
<b>Market Gardens</b> As a knock down prior to seeding, transplanting and after harvest cleanup	All vegetables	1. For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds 2. Cultivate within 21 days of spraying to ensure control 3. Do not sow until a satisfactory seed bed has been prepared 4. An appropriate residual herbicide can be used as a tank mix with Turbo 300.
<b>Minimum Tillage</b> For total weed control prior to seeding	Cereal, Pasture, Brassica & Leguminous Crops	1. For best results do not disturb weeds by grazing for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds 2. To ensure control and avoid respraying newly germinated weeds work sprayed area by full cultivation or the seeding operation within 3 weeks of spraying 3. Do not sow until a satisfactory seed bed has been prepared 4. For improved control of white clover, tank mix with Void®, Till-Mate® or Bandit®. Read respective labels fully before applying, and observe recommended plant back periods
<b>Orchards and Vineyards</b> As a knockdown prior to establishment or where plants are 3 years old or over	Apple, Citrus, Grapevines, Kiwifruit, Pear, Stonefruit.	1. Use a directed or shielded spray 2. Do NOT let spray contact any green foliage or new growth 3. Spray before bloom stage of crop 4. Turbo 300 can be tank mixed with an appropriate herbicide for residual control
<b>Pre-Harvest</b> For control of emerged weeds and as a clean up to enhance harvesting	Wheat, Barley, Oats and Threshing Peas.	1. Spray 7 - 12 days pre-harvest 2. Grain moisture should be below 30% 3. Withholding Period: 7 days 4. Do not spray seed crops 5. Do not spray undersown crops
<b>Recreational Areas</b> For weed control prior to establishment and as a cleanup around established areas	Lawns, Ornamentals, Parks and Reserves.	1. Established Plants: Use a directed or shielded spray or with a wiper around plants avoiding any spray contact on green or growing points of plant

SEE INSIDE FOR TABLE →

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### DIRECTIONS FOR USE

Weed Table		
Weeds Controlled	Rate per Hectare	Critical Comments
Amaranth, Barley Grass, Capeweed, Cleavers, Volunteer Cereals, Spiny Emex, Storksbills, Fumitory, Mintweed, Patersons Curse, Prairie Grass, Ryegrass, Saffron Thistle, Vulpia Hairgrass, Sub. Clover, Wild Mustard, Wild Turnip	1.2 - 2.4 L/ha Handgun 240ml/100L Knapsack 24ml/10L Wiper 40% solution	1. Use the high rate on weeds greater than 14cm across or 14cm high
Australian Sedge	7.2 L/ha Handgun 1.2L/100L Knapsack 120ml/10L	1. Best results when sprayed in Summer 2. Do not disturb for 4 weeks post treatment 3. Wiper: 33% solution
Floating Sweet Grass, Reed Sweet Grass		
Johnson Grass, Kikuyu, Mercer Grass (Non-Aquatic)		1. Best results when plants are in the early seedhead stage
Ragwort		1. Ensure adequate leaf area for spray uptake 2. Wiper: 33% solution. Plants should be above pasture to avoid non-target contact. Use a double pass for best results 3. Plants become more palatable to stock after treatment so remove until brownout occurs
Ratstail		1. Use high water volumes (200 litres/ha) in Autumn when foliage is green 2. Do not disturb treated plants for 21 days post spraying
Rautahi (Cutty Grass), Rushes, Tall Fescue		1. Spray Jan-March 2. Do not burn or slash for 4 weeks post spraying
Barberry	Handgun 1.2L/100L Knapsack 120ml/10L	1. Best results when sprayed mid to late Summer after flowering to full fruit
Blackberry	10.8 - 24 L/ha Handgun 1.2-1.8L/100L Knapsack 120ml/10L	1. Best results when sprayed mid to late Summer after flowering to full fruit 2. Best results when plants have a full canopy and total leaf coverage is achieved 3. Use higher rate on heavy infestations where total coverage may not be achieved 4. Regrowth can occur after 1 - 2 years 5. Do not disturb treated plants until 8 weeks post treatment
Bracken	10.8 L/ha Handgun 1.2L/100L Knapsack 120ml/10L	1. Spray mid Summer to mid Winter when fronds are open 2. Burning after treatment will help pasture establishment 3. The addition of organosilicone penetrant such as Silmaxx™, at 250ml/100 litres is recommended
Broom		1. Spray late Spring to early Summer when plants are in full leaf
Buddleia		

Weed Table		
Weeds Controlled	Rate per Hectare	Critical Comments
Dock	10.8 L/ha	1. Best results when sprayed Spring - Summer before seedheads have formed
Indian Doab, Mercer Grass (Aquatic)	Handgun 1.2L/100L Knapsack 120ml/10L	1. Best results when plants are at early seedheads
Willow		1. Spray to ensure good leaf coverage from mid to late Summer
Browntop	7.2 L/ha Handgun 1.2L/100L Knapsack 120ml/10L	1. If plants are greater than 10cm high, graze or burn then treat regrowth 2. The addition of a pH Buffer is recommended at 60 - 100ml/100 litres
Californian Thistle	4.8 L/ha Handgun 1.2L/100L Knapsack 120ml/10L	1. Spray plants after flower bud stage 2. Improved results obtained when thistles are mowed 10 days post spraying
Paspalum		1. Spray when plants are at early seedhead
Couch	3.6 - 7.2 L/ha Handgun 1.2L/100L Knapsack 120ml/10L	1. Spray at early seedhead stage when plants are actively growing 2. Use the low rate for suppression only 3. Pre-harvest: Use 5 litres/ha. Turbo 300 will not control unemerged growth. 4. The use of a pH Buffer will improve the consistency of control
Gorse	Handgun only 1.2L/100L	1. Use an organosilicone penetrant such as Silmaxx™ at 200ml/100 litres 2. Spray when plants are at early seedhead 3. Ensure complete coverage 4. Regrowth may occur after 1 year. Re-treat if required
Nodding Thistle	Wiper only 40% solution	1. A double pass may be required for good coverage 2. Spray Spring to Autumn on actively growing plants with at least 10cm of growth exposed to wiper
Old Man's Beard	Handgun 1.2L/100L Knapsack 240ml/10L	1. Apply before the first leaf browns off 2. Use the higher rate on plants with stems greater than 1cm in diameter 3. If complete coverage is not possible cut plants in the Winter and treat at the high rate when regrowth is at 0.5 - 1m in length
Pampus Grass, Toetoe		1. Spray Spring to Autumn 2. Do not spray flowering plants
Potato (self set)	3.6 L/ha Handgun 600ml/100L Knapsack 60ml/10L	
Ring Fern	1.2 - 3.6 L/ha Handgun 360ml/100L Knapsack 40ml/10L	1. Use the high rate for control 2. Use 2.4 litres/ha for Pasture Manipulation
Ryegrass (Perennial)	4.8 L/ha	1. Use an organosilicone penetrant such as Silmaxx at 100ml/100 litres
Yarrow	3.6 - 7.2 L/ha	1. For best results cultivation should follow treatment 2. Only use the low rate when a competitive crop is planted after treatment