

140 x 100mm (WxH)

**orion** AGRISCIENCE

**WARNING**

KEEP OUT OF REACH OF CHILDREN

Orion  
**Etho**  
**HERBICIDE**



For the control of barley grass in PASTURE and weed control in RED BEET, FODDER BEET, SUGAR BEET and RYEGRASS TURF

**Active Ingredient:**

500 g/litre ethofumesate in the form of a suspension concentrate



**10 Litres**

**READ LABEL BEFORE USE****HAZARD CLASSIFICATIONS:****Hazardous to the Aquatic Environment Chronic (Cat. 2) ), Hazardous to soil organisms****WARNING: ECOTOXIC**

Toxic to aquatic life with long lasting effects. Very toxic to the soil environment.

**PRECAUTIONS****HANDLING REQUIREMENTS:**

This product must only be handled, mixed and applied by a suitably qualified person as defined under the HPC notice 2017 Part 4C. Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 L or more is applied within 24 hours and likely to leave the application area.

**STORAGE**

Store in the original tightly closed container in a secure area. 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.

**PROTECTIVE EQUIPMENT**

When mixing or applying, wear overalls, boots, gloves, and eye protection. Wear a respirator if spray mist could be inhaled.

**USE**

Avoid contact with eyes and skin. Do not breathe in the spray mist. Wash hands thoroughly after use. Apply with well maintained and calibrated spray equipment.

**DISPOSAL**

Dispose of this product by using it in accordance with this label. Dispose of the container via AgRecovery after triple rinsing (use the rinsate for spraying). Do not burn. Do not use the container for any other purpose.

**ENVIRONMENTAL**

Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly onto or into water. Collect spillage.

**FIRST AID**

If medical advice is needed, have product container or label at hand.

For advice, call the Poisons Centre on **0800 POISON (0800 764 766)** or a Doctor.**EMERGENCY RESPONSE**In a transport emergency call **111, Police or Fire Brigade**. In case of fire, call **111 Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).**SAFETY DATA SHEET**Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit **www.orionagriscience.co.nz****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.

Batch No.

Date of Manufacture

Registered pursuant to the ACVM Act 1997, No. P10051

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

Approved pursuant to the HSNO Act 1996, No. HSR000826

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

™BETALL PD is Trade Marks of Orion AgriScience Ltd

**Registrant:** Agsin Pte Ltd, Zagro Global Hub, 5 Woodlands Terrace, Singapore 738430**Distributor:** Orion AgriScience Ltd, Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch 8053 **0800 674 6627** [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)**UN 3082****ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (ETHOFUMESATE 50%)****HAZARD CLASS 9****PACKING GROUP III****HAZCHEM CODE 3Z****ORION ETHO**

## READ LABEL BEFORE USE

### GENERAL INFORMATION

Orion Etho is a selective herbicide for the control of barley grass in pasture and weed control in red beet, fodder beet, sugar beet and ryegrass turf. Best results are obtained when weeds are not under stress.

### Weeds Controlled

**Susceptible:** Redroot, fumitory, cleavers, chickweed, spurrey, wild portulaca, summer grass, annual poa, sow thistle.

**Moderately Susceptible:** Fathen, black nightshade, wireweed, willow weed, speedwells, barnyard grass, wild oats, combind, annual nettle, shepherds purse.

**Resistant:** Wild radish, dead nettle, galinsoga, ryegrasses, groundsel, perennial weeds.

**Controlled Pre-Emergence Only:** Combind, annual nettle, shepherds purse.

### RESISTANCE MANAGEMENT

GROUP	15	HERBICIDE
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Orion Etho contains ethofumesate, which belongs to the benzofuran 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.

### APPLICATION METHODS

Non-reinforced PVC tubing may soften and swell after prolonged contact. Use conventional ground spraying equipment. Clean sprayer thoroughly with water and detergent.

### COMPATIBILITY

Do NOT mix with any wetting agents or surfactants. May be tank mixed with products containing phenmedipham and desmedipham. Mixing with phenoxy herbicides for use on pasture is NOT recommended.

### RAINFALL

Do not apply if rain is expected within 3 hours of spraying.

**FOLLOWING CROPS:** Any crop may be sown 5 months after a single application of Orion Etho at recommended rates. Ploughing to a minimum depth of 15cm should precede seedbed preparation for following crops.

### WITHHOLDING 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.**

Pasture - Do NOT graze stock on treated areas for 28 days.

Beet Crops— Do NOT graze stock on treated areas for 56 days.

## DIRECTIONS FOR USE

Crop	Weeds Controlled	Rates per Hectare	Rate for Gun Application	Critical Comments
Pasture	Barley grass	4 litres/ha in 200 – 400 litres water per ha	400 ml/100 litres water	Apply after main germination, usually from April to July. Evenly grazed pasture 3 - 5cm high will help achieve optimum results. Raw organic matter will reduce effectiveness on stock camps. Temporary suppression of white clover will occur.
Redbeet —beetroot		<i>Pre-sowing and Pre-emergence:</i> 3 - 4 litres/ha in 200 – 300 litres water per ha  <i>Post-emergence:</i> 4 litres/ha in 200 - 300 litres water per ha		Apply before weed emergence and before or as soon as possible after drilling. The seedbed needs to be fine, firm and moist. Use the higher rate over dry and cloddy soil and incorporate to 3 - 5 cm.  Apply to weeds at the cotyledon to 2 leaf stage.
Fodder Beet		<i>Pre-sowing and Pre-emergence:</i> 2 litres/ha in 200- 300 litres of water  <i>Post-emergence:</i> 2 litres/ha in 200- 300 litres of water		Apply before crop or weed emergence and before or as soon as possible after drilling. The seedbed needs to be fine, firm and moist. If moisture is limited, shallow (2-5cm) incorporation of pre-sowing treatment may be preferred.  Make two applications in combination with 1.5 L/ha of Beetall™ PD after the crop has 2 true leaves fully developed. Apply first spray when the weeds are at cotyledon to 2 true leaf stage. Apply the second spray 10 – 14 days later.
Sugar Beet		<i>Pre-emergence:</i> 2-3 litres/ha in 200 - 300 litres water per ha  <i>Post-emergence:</i> 2 litres/ha in 200- 300 litres of water		Apply before crop or weed emergence and as soon as possible after drilling. The seedbed needs to be fine, firm and moist. Use the highest rate where moisture is limited or the seedbed is less than ideal.  Make two applications in combination with 1.5 L/ha of Beetall™ PD after the crop has 2 true leaves fully developed. Apply first spray when the weeds are at cotyledon to 2 true leaf stage. Apply the second spray 10 – 14 days later.
Turf – ryegrass (do not apply to fine turf species)	Annual poa  Summer, barnyard and bristle grasses	4 litres/ha in 200 – 400 litres water per ha	400 ml/100 litres water	Treat the same as for barley grass. Delay mowing for 4 - 5 days after spraying.  Apply just before weed emergence in September – October. After 6 - 8 weeks a repeat treatment maybe necessary. Oversow with ryegrass immediately if turf contains less than 5% ryegrass.