

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 soil organisms,
Hazardous to the Aquatic Environment Chronic (Cat. 2)**

WARNING

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

PRECAUTIONS

Read carefully and follow all instructions. Avoid contact with eyes and skin. Do not breathe in the spray mist. When mixing or applying, wear overalls, boots, gloves, and eye protection. Wear a respirator if spray mist could be inhaled. Wash hands thoroughly after use.

STORAGE

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

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. 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.

Registered pursuant to the ACVM Act 1997, No. P10051
See www.foodsafety.govt.nz for registration conditions.
Approved pursuant to the HSNO Act 1996, No. HSR000826
See www.epa.govt.nz for approval conditions.

™BEETALL 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

UN 3082

**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (ETHOFUMESATE 50%)
HAZARD CLASS 9
PACKING GROUP III
HAZCHEM CODE 32**

Batch No.
Date of Manufacture

ORION ETHO

orion
AGRISCIENCE

0623



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

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

Apply with well maintained and calibrated spray equipment. Application must be by a qualified loader, contractor or person.

Crop	Weeds Controlled	Rate 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		Pre-sowing and Pre-emergence: 3 - 4 litres/ha in 200 – 300 litres water per ha Post-emergence: 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		Pre-sowing and Pre-emergence: 2 litres/ha in 200-300 litres of water Post-emergence: 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 Beetal™ 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		Pre-emergence: 2-3 litres/ha in 200 - 300 litres water per ha Post-emergence: 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 Beetal™ 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.

