

orion AGRISCIENCE

COMBUSTIBLE LIQUID | ECOTOXIC
KEEP OUT OF REACH OF CHILDREN



Hurricane[®]

HERBICIDE

For the selective control of grass weeds in
WHITE CLOVER, FORESTRY, ORCHARDS,
NURSERIES, NON-CROP AREAS and certain
BROADLEAF CROPS.

Active Ingredient:

100 g/litre haloxyfop-P present as haloxyfop-P-methyl in the form of
an emulsifiable concentrate.



5 Litres



PLEASE READ THE LABEL COMPLETELY BEFORE USE

HAZARD CLASSIFICATIONS: 3.1D, 6.4A, 6.9B, 9.1B

WARNING: FLAMMABLE, ECOTOXIC

Combustible liquid. Harmful. May cause eye irritation. May cause organ damage from repeated ingestion at high doses. Toxic to aquatic organisms.

PRECAUTIONS

STORAGE: Keep out of reach of children. Do not store near heat, flame or other source of ignition. Store in the original, tightly closed container, in a cool, well ventilated and 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.

PERSONAL PROTECTION: Avoid contact with eyes and skin. Avoid inhalation of vapour or 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: Avoid handling, mixing or use of the undiluted product or container near heat, flame or other source of ignition. 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. Do not burn. 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**. In a fire, evacuate and call **111 Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).

Spillage

Extinguish any ignition sources. 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.

WARRANTY

This formulation is warranted to contain the specified active ingredients 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. P7703

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, No. HSR000373

See www.epa.govt.nz for approval conditions.

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™ATRAFLOW, ASSETT, SYNOIL, SIMATOP and VOID are Trade Marks of Orion AgriScience Ltd.

Registrant: Orion AgriScience Ltd,

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Harewood, Christchurch 8053.

www.orionagriscience.co.nz

Batch No:

Date of manufacture:

HURRICANE



AGRISCIENCE

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APPLICATION METHODS

Aerial Spraying: Use 100 – 300L of water per hectare.

Boom Spraying: Use a minimum of 200L of water per hectare.

Spot Gun: Use with an extension lance and a solid cone nozzle.

High Volume Gun: Ensure full coverage of foliage. Use a no. 4 tip, and pressures 500 – 2000 kPa.

Knapsack: Ensure full coverage.

Thoroughly clean spray equipment after use. Decontaminate equipment before using again on sensitive crops, eg, cereals, maize, grasses.

MIXING

Mix the required quantity in the spray tank partly filled with water, and maintain agitation through filling and spraying. If adding Synoil™, add after Hurricane. If adding other herbicides, add before Hurricane.

COMPATIBILITY

Hurricane is compatible with herbicides such as Assett™ (terbuthylazine), Atraflo™ 500FW or Atragranz®90WG (atrazine), Simatop™ 500FW (simazine) and Void™ or (clopyralid). Refer to Tables for specific advice.

RAINFALL

Hurricane is rainfast 1 hour after application.

SOIL RESIDUES

Do not plant cereal, maize or grass crops within 12 weeks of treatment.

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.

Asparagus Do not apply during the cutting season

Lentils, Peas Do not apply after flowering

Onions Do not apply within 5 weeks of harvest

Export Crops Contact your exporter or industry crop adviser

RESISTANCE MANAGEMENT

GROUP A HERBICIDE

Hurricane contains the active ingredient haloxyfop-P-methyl, which belongs to the Aryloxyphenoxypropionates (FOP) 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 uses listed on the label.

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RATES OF APPLICATION AND TIMING

Grass Weed	Broadcast L/ha	Knapsack mL/10L	Spotgun mL/L	Handgun mL/100L	Critical Comments
African feather grass	7.5	150	60	500	Repeat as necessary
Pampas grass					For best results, treat plants less than 1 m high
Annual grass weeds including annual ryegrass, barnyard grass, bristle grass, summer grass, volunteer cereals	0.6	12.5	6	-	Use with Synoil (at 0.5% of the spray mix) for grass weeds at an advanced stage, or when growing under stress or slow growth conditions
Annual poa	1.5	30	15	300	
Browntop, couch (sod bound), Indian doab, kikuyu, Mercer grass, paspalum, ratstail	3.75 - 5	60	40	375	Use high rate for grass weeds at an advanced stage, or when growing under stress or slow growth conditions. Use high rate for sod bound couch. Use 2.5L/ha for suppression of these grass weeds in lucerne
Cocksfoot, prairie grass, soft brome, sweet vernal, Yorkshire fog	1.25 – 2.5	25	12.5	250	Use high rate for grass weeds at an advanced stage, or when growing under stress or slow growth conditions
Couch (cultivated)	1.25 – 2.5	-	-	-	Use low rate on young or actively regenerating couch after extensive cultivation to break roots into small pieces. Use high rate on tillering couch. Use low rate for suppression in crops and high rate for longer term control
Perennial ryegrass	1.25 – 2.5	25	12.5	250	Broadcast application: Use low rate with Synoil (at 0.5% of the spray mix) or high rate without Synoil. Use low rate with Synoil for seedling perennial ryegrass only. Use the high rate with Synoil for perennial ryegrass at an advanced stage, or when growing under stress or slow growth conditions
Wild oats	0.5	12.5	6	-	-

Crop/Situation	Critical Comments
Asparagus	Apply Hurricane, with Synoil at 0.5% of the spray mix, after the final cut
Clover, lucerne	Apply Hurricane with Synoil at 0.5% of the spray mix
Citrus, pipfruit	Hurricane, with Synoil at 0.5% of the spray mix, should be applied as a directed spray around the base of trees. Avoid direct contact with fruit
Forestry (tree release)	Hurricane may be applied over forestry species including Radiata pine and Eucalyptus species. To control broadleaf weeds in Radiata pine, add Gardoprim (terbuthylazine), Gesaprim 500FW or Atragranz 90WG (atrazine), Simatop 500FW (simazine), or Void or Pirate 300 (clopyralid). To control broadleaf weeds in Eucalyptus species, Void or Pirate 300 (clopyralid) may be added. Do not add Synoil to spray mixes containing clopyralid or terbuthylazine
Lentils, peas	Apply Hurricane at no more than 1.5L/ha. Do not add Synoil
Onions	Apply Hurricane at no more than 1.5L/ha. Apply with Synoil at 0.5% of the spray mix
Tree nurseries	Hurricane may be applied over seedling Radiata pine, Eucalyptus, Acacia, Casuarina and other seedling plantation and ornamental tree species. NOTE: Where there is no previous experience of safety on particular species, apply over a few seedlings first before treating large areas. Consult your Orion AgriScience Representative. Do not add Synoil