

**orion** AGRISCIENCE

**WARNING**

KEEP OUT OF REACH OF CHILDREN



# Atraflow<sup>TM</sup>

## HERBICIDE

For the selective post-emergent control of  
broadleaf weeds in MAIZE, SWEETCORN, LINSEED  
and established LUCERNE

**Active Ingredient:**

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

SHAKE WELL BEFORE USE



9 421004 53268 6

**20 Litres**

**PLEASE READ THE LABEL COMPLETELY BEFORE USE****HAZARD CLASSIFICATION:**

**Acute oral toxicity Category 4, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1**

**WARNING: TOXIC, ECOTOXIC**

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Very toxic to the soil environment. Harmful to terrestrial vertebrates.

**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.

**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.

**STORAGE**

Keep out of reach of children. Store in the original, tightly closed container, in a cool, dry and well ventilated area away from feed or foodstuffs. Avoid temperatures below 5°C and above 35°C. 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.

**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 rinseate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not use container for any other purpose.

**ENVIRONMENTAL**

Use this product carefully. 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 into or onto water. Collect spillage. 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 medical advice is needed, have the product container or label on hand. 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)** (24hrs) 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 (08006746627)** or visit [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz).

**GENERAL INFORMATION**

Atraflow is a selective herbicide for the control of some seedling broadleaf weeds in maize, sweetcorn, linseed and established lucerne. Atraflow is absorbed through leaves and roots ensuring a high degree of weed control when used as a post-emergence spray. To obtain the maximum residual effect from Atraflow it should be applied to a smooth clod-free soil. Atraflow can be safely used near tomato, grape and other hormone sensitive crops.

**DIRECTIONS FOR USE**

Apply with well-maintained and calibrated spray equipment.

**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.**

**MAIZE AND SWEETCORN**

**Rate of Application:** 3 litres of Atraflow in 220 - 450 litres water per hectare; or 1 - 1.5 litres of Atraflow with 150 - 200 mL of Callisto® or Dominator™ and a crop oil adjuvant at 1% of the spray mix (eg. Synoil™).

**Time of Application:** To control emergent annual broadleaf weeds such as fathen, black nightshade, willow weed, redroot and apple of Peru, apply Atraflow as an early post emergence spray to actively growing seedling weeds no greater than 5cm high. Atraflow should not be applied under dry hardened growth conditions, and the addition of a wetting agent at manufacturer's label rates is essential for post-emergent weed control. Providing the spray has dried on the foliage, light rain after application of Atraflow will not affect the results. At all stages of growth, both maize and sweetcorn are resistant to Atraflow when treated at the recommended rates of application.

Batch No:

Date of manufacture:

**After treatment:** Shallow moulding at the time of inter-row cultivation can improve the performance of Atraflow. Under dry conditions smother mould to a depth of 3cm seven to ten days after spraying.

**Grass weeds:** For pre-emergence control of annual grasses, use the recommended product Dual® Gold, Sylon® 840 or Ace™ according to label directions.

**Fathen:** Some fathen plants may be resistant to products containing atrazine, and the use of Bandit® post-emergence herbicide may be necessary to remove them.

**LINSEED**

**Rate of Application:** 800ml of Atraflow plus 750ml of an MCPA 75% a.i. product eg. Orion MCPA 750, in 150 - 250 litres of water per hectare.

**Time of Application:** To control annual broadleaf weeds such as spurry, combind, willow weed and fumitory, apply the Atraflow / MCPA mixture as a post-emergence spray when the crop is not more than 6cm high. Ideally application should be made when the soil is moist and when weeds are not beyond the two true leaf stage.

**LUCERNE (Established)**

**Rates of Application:** 1.5 litres of Atraflow plus 2 - 3 litres of paraquat 20% a.i. eg. PQ200™ in 200 - 300 litres water per hectare.

**Time of Application:** To control seedling shepherd's purse, subterranean clover and storksbill, apply to closely grazed lucerne stands during the winter months when the lucerne is completely dormant. Do not apply when frost is still on the foliage, or when ground conditions are excessively wet.

**CAUTION:** Atraflow / paraquat 20% must be applied only to established lucerne stands that are at least one year old. Weed growth should be short, clean and free from soil contamination. Do not spray immediately following heavy grazing - allow a few days for weed growth to freshen up. Avoid excessive boom overlap when spraying. Apply ONLY when lucerne is completely dormant.

**APPLICATION METHODS**

Atraflow is non-corrosive and almost non-abrasive. Atraflow can be applied with conventional spraying equipment. Do not use strainers finer than 300 micrometres. Wash equipment thoroughly after use.

**Band spraying:** Specially designed dropper equipment with rowcrop swivel nozzles should be used. Two nozzles per row, one from each side should be angled to give uniform coverage to the recommended bandwidth.

**MIXING**

As setting out may occur during storage shake well or recirculate before use. Atraflow mixes readily with water. Pour the correct quantity into the partly filled tank then add the remaining water while agitating. The spray mixture should be kept agitated before and during spraying and before spraying after a stoppage. Unused spray mixture will settle overnight. **Note:** When using mixtures of Atraflow and paraquat 20% a.i., add the Atraflow to the partly filled tank first, mix thoroughly, then add the paraquat and remainder of the water with agitation.

**SOIL RESIDUES**

To minimise soil residues which could affect subsequent crops, areas treated with Atraflow should be ploughed and cross-cultivated between crops to ensure maximum dispersal of residues. Because residues may result from the use of Atraflow, certain crops, for example tomatoes, cucurbits, brassicae, lettuce and beans, should not be planted in areas previously treated with Atraflow without first obtaining advice from your local Orion AgriScience representative.

**RESISTANCE MANAGEMENT**

GROUP	5	HERBICIDE
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Atraflow contains atrazine, a group 5 herbicide belonging to the triazine 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.

**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. P3001

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

Approved pursuant to the HSNO Act 1996, No. HSR000534

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

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