

**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**  
**READ SAFETY DIRECTIONS BEFORE**  
**OPENING OR USING**



# HEAD<sup>®</sup> START



## HERBICIDE

Contains: 50g/litre flumetsulam in the form of an oil dispersion

**For broadleaf weed control in wheat, barley,  
pasture and seed crops containing clovers and  
ryegrass, lucerne and chicory**

**NET CONTENTS: 5 LITRES**

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Approved pursuant to the HSNO Act 1996, No HSR100555. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

Registered pursuant to the ACVM Act 1997, No. P008493. See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

**arxada**

**GHS CLASSIFICATION**

Serious eye damage Category 1  
Skin irritation Category 2

Hazardous to soil organisms.  
Hazardous to the aquatic environment acute & chronic Category 1.

**HAZARD STATEMENT**

Causes serious eye damage.  
Causes skin irritation.

Very toxic to the soil environment.  
Hazardous to soil organisms.  
Very toxic to aquatic life, with long lasting effects.

**FIRST AID:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician/first aider.  
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**PERSONAL PROTECTION:** Wear protective gloves, protective clothing, eye protection and face protection. Wash all exposed external body areas thoroughly after handling.

**STORAGE:** Store locked up. Store in original container, tightly closed and in a dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

**DISPOSAL:** Avoid contamination of any water supply with product or empty container. Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved landfill or disposal facility.

**SPILLAGE:** Wear appropriate protective clothing. Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste container. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

**SAFETY DATA SHEET:** Additional information is listed in the Safety Data Sheet available from Arxada NZ Limited or [www.arxada.co.nz](http://www.arxada.co.nz)

**QUALIFICATION REQUIREMENTS:** Persons mixing, loading, applying, or otherwise handling Headstart must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.

**HSNO ADDITIONAL CONTROLS:** The maximum application rate of this substance shall be 1L/ha.

**PLEASE READ THE ENTIRE LABEL BEFORE MIXING OR USE. SHAKE OR STIR WELL BEFORE USE.****DIRECTIONS FOR USE:**

Headstart will control or suppress indicated broadleaf weeds while maintaining selectivity to clover, lucerne, chicory cereals (wheat and barley), and ryegrass.

**Post-emerge Applications:**

Apply to weeds in active growth. Do not apply in wet and/or cold conditions.

RATE/HA	WEEDS CONTROLLED	CRITICAL COMMENTS
500 mL	Chickweed, spurrey, wild radish, hedge mustard	Apply before the 4th leaf growth stage
800 mL	Amaranthus (redroot), broadleaved dock, cleavers, black nightshade, fathen, inkweed, nettle, shepherds purse, storksbill, twincrest, mallow	Apply before the 4th leaf growth stage
	Annual buttercup, creeping yellow cress, yellow gromwell	Apply before flowering
1.0 litre	Larger weeds (above)	
	Stinking mayweed, wireweed, sorrel	Apply to young seedlings
	Dandelion, hawkbit, scrambling speedwell	Apply before the 4th leaf growth stage. Effectiveness on these weeds may be limited during periods of cold conditions.
	Nodding thistle	Apply before the 6th leaf growth stage
	Field madder, field pansy, henbit, willow weed, oxeye daisy	Apply to young seedlings for suppression only
	Giant buttercup	Apply before flowering

**NOTE for BUTTERCUP CONTROL in MATURE PASTURE:** Headstart may be applied in either spring or autumn for buttercup control. Repeat spring treatments for two successive seasons will maximise control of giant buttercup.

**Post-plant pre-emerge applications:**

RATE/HA	WEEDS CONTROLLED	CRITICAL COMMENTS
1.0 Litre	<b>Controlled:</b> Chickweed, fathen, groundsel, shepherd's purse, spurrey, stinking mayweed, willow weed.	Apply before weeds emerge to a well prepared seed bed. Some soil moisture is required for the product to activate. Poor results will occur under dry soil conditions.
	<b>Partially Controlled:</b> Henbit, scrambling speedwell.	

**APPLICATION TIMING:**

To maximise crop safety observe the following application timing guidelines.

CROP	CROP GROWTH STAGE and CRITICAL COMMENTS
<b>Pasture and Seed crops</b>	<b>Ryegrass:</b> Apply at any time after planting. <b>White, Red, and Subterranean Clovers:</b> Apply at any time after planting. Some temporary yellowing and suppression is expected when treated between planting and two trifoliate leaf stage. Effects will be more pronounced during stress and declining temperatures in late Autumn. <b>Clover Seed Crops:</b> Do not apply after stolon elongation.
<b>Lucerne</b>	Apply after lucerne has developed at least four true leaves and before flowering for seedling weeds as above. A period of crop discoloration may occur in sensitive varieties especially in young or stressed crops. Plants treated at four true leaf or earlier will be significantly suppressed. See compatibility section
<b>Chicory</b>	Apply at any time after emergence. A period of crop discoloration or leaf necrosis may occur in sensitive varieties especially in young or stressed crops or if applied in hot conditions.
<b>Cereals (wheat and barley)</b>	Apply a single application any time after planting up to the end of tillering for weed control. A period of crop discoloration and suppression may occur in sensitive varieties especially in barley, stressed crops, or under extremely cold and wet conditions. Some minor straw shortening may also occur in some varieties leading to a minor delay in maturity and a reduction in yield may occur in under low weed pressure. Headstart may be tank mixed with Firebird® (see Patent information) in autumn and winter sown wheat and barley, and MCPA or Hussar® in winter and spring sown wheat and barley. Ensure spray swathes do not overlap when spraying Headstart in wheat and barley.

**MIXING:** Pour the correct amount of Headstart into the partly filled tank, and while agitating add the remainder of the water. Maintain agitation during spraying and any stoppages. Only mix sufficient spray for immediate use and avoid storing. When tank mixing add Headstart last.

**ADJUVANTS:** Headstart contains an inbuilt surfactant system. **DO NOT add any further surfactant or spraying oil.**

**COMPATIBILITY:** Headstart is compatible with relevant selective crop and pasture herbicides including MCPB, and triazines. Refer to the tank mixture herbicide product labels for further instructions. Headstart is compatible with Firebird® (see Patent information), Hussar®, and MCPA in cereal crops.

Do not tank mix triazine herbicides with Headstart on lucerne during active growth as unacceptable crop suppression may occur.

**PATENT:** The tank mixture of Headstart with Firebird® is covered under the Arxada NZ Limited owned Patent number 588247.

**APPLICATION:**

**Prevent spray drift as it may cause severe damage to non-target plants.**

**Boom Spraying (aerial and ground):** Use 100 to 300 litres water per hectare as a medium quality spray. For dense weed infestations use the higher water rate.

**CDA Spraying:** For pasture weeds use no less than 30 litres water per hectare and a droplet size of 250 to 300 microns. CDA application may result in less effective weed control than with conventional boom spraying.

**RAINFALL:** The effectiveness of Headstart may be reduced if rain falls within four hours of spraying.

**CROP ROTATIONS:** Do not plant susceptible crops after the application of Headstart, including but not limited to: beans, lupins, and sunflowers until three months after application. Do not plant Brassica species for at least 6 months after application. Do not plant Fodder Beet crops for at least 12 months after application. Do not allow spray drift onto susceptible crops or land to be planted with susceptible crops.

**RESISTANCE MANAGEMENT:** **GROUP 2 HERBICIDE** Headstart contains a triazolopyrimidine herbicide with the ALS (acetolactate synthase) inhibition mode of action. Some chickweed biotypes resistant to ALS herbicides do exist and other naturally occurring weed biotypes may become resistant with excessive use of the same herbicide. To maximise the long term effectiveness of this group of herbicides consider herbicide rotation with products with a different mode of action. Use Headstart strictly in accordance with the label directions especially with respect to rate and weed growth stage. See [www.nzpps.org](http://www.nzpps.org) for alternate modes of action and the details of resistance management strategies (if any) for the weeds listed on the label.

**ANIMAL SAFETY:** Poisonous plants including but not limited to giant buttercup and black nightshade may become more palatable after spraying. If concerned that stock health may be affected livestock should be kept out until plants have died down.

**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.**

**HARVEST, GRAZING AND CUTTING WITHHOLDING PERIODS:**

Check Withholding Period/ Timing for tank mix partners. Use the most restrictive timing when using tank mixes:

Pasture 14 days. See also animal safety and crop rotation sections.

**Wheat and Barley for Animal Feed:** 28 days

**Wheat and Barley for Grain:** 28 days

**SPRAY EQUIPMENT CLEANING****BEFORE using Headstart:**

If the equipment has been used to apply any sulfonylurea compounds it must be decontaminated according to the instructions on the sulfonylurea product label before using Headstart. Even trace amounts of sulfonylurea herbicides can cause serious damage to crops likely to be sprayed with Headstart.

**AFTER using Headstart:**

**Rinsing:** After using Headstart empty the spray unit and completely drain the whole system. Thoroughly clean all sprayer parts including tank, pump, hoses, filters and nozzles with several flushes of clean water.

**Decontamination:** To avoid injury to subsequently sprayed sensitive crops including but not limited to brassicas, beans, lupins and sunflowers thoroughly remove all traces of Headstart from mixing and spray equipment. Wash the system as above then quarter fill the tank and add a standard alkali based laundry detergent at 500g (or ml) per 100 litres and circulate throughout the system for fifteen minutes. Drain system and repeat the rinsing as above. Do not use chlorine based cleaners.

**NOTICE TO BUYER:** The manufacturer and vendors of Headstart warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

Firebird® and Hussar® are registered Trademarks of Bayer Group.

**REGISTERED TO:** Arxada NZ Limited, Hudson Rd, New Plymouth, New Zealand.

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D.O.M:

BATCH NO:

