



HEAD START[®]



Clover Friendly Pasture Herbicide

Adjuvant ready,
safe on chicory, clover,
lucerne and young pasture

LOCAL INTELLIGENCE.
GLOBAL SCALE.

arxada

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ACTIVE INGREDIENT

Headstart contains 50g/litre flumetsulam, a triazolopyrimidine herbicide which targets particular weed species without harming pastures and certain crops.

BIOCHEMICAL MODE OF ACTION

Headstart is active via the inhibition of an enzyme, which is essential for amino acid production. Tolerant species like grasses and clover metabolise flumetsulam thus rendering it safe.

MOVEMENT IN PLANTS

Headstart is a systemic herbicide taken in via both the roots and foliage. It is translocated via xylem and phloem to all active growing points where it prevents further growth. As uptake is rapid, Headstart is effective and resistant to rainfall wash-off as soon as it is completely dry on the leaf. For optimum results, however it is best to ensure a rain free period of two hours after spraying.

OLEO FORMULATION TECHNOLOGY

Oleo is the unique delivery system utilising a revolutionary technology developed by the skilled chemists at Arxada. Oleo allows us to create liquids using actives normally unstable in solution, and mixing traditionally incompatible actives. The technology involves not only the careful manipulation of oils, adjuvants, stabilisers and active ingredients but the way they are mixed and even the order.

The biggest gains however are made when incorporating adjuvant systems where the carefully selected formulation components are added in the optimum ratio. This allows Arxada to make products that do not need tank mixing with wetting agents or crop oils. Weed activity and crop safety are maintained or even enhanced.

WEED SPECTRUM

Headstart controls a broad spectrum of weeds including some troublesome species not controlled by conventional herbicides. This is largely because you can use Headstart early when these weeds are young.

The labelled list of weeds controlled includes; amaranthus (redroot), fathen, buttercups (annual and giant), chickweed, spurrey, cleavers, black nightshade, shepherds purse, wild radish, hedge mustard, creeping yellow cress, wireweed, willow weed, sorrel, mallows, yellow gromwell, mayweeds, oxeye daisy, field pansy and henbit.

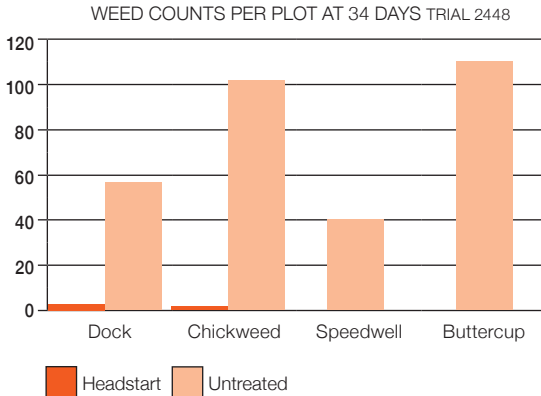
The Headstart formulation has shown excellent consistency of results, which means many more weeds are listed as controlled over and above other ordinary flumetsulam products. These additional weeds are; nodding thistle, broad-leaved dock, inkweed, storksbill, twincrest, dandelion, hawkbit, scrambling speedwell, and field madder.

As below, the optimal time to apply Headstart is when weeds are at the seedling stage.



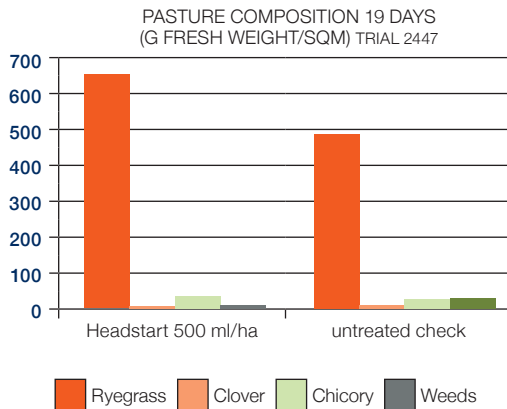
WEED CONTROL TRIALS

The following graph illustrates the effectiveness of Headstart in a trial in Northland.



YIELD BENEFITS OF WEED CONTROL

Waikato pasture composition 19 days after application.



GETTING THE BEST OUT OF

HEADSTART®

Mixing: Headstart can be added directly to the spray tank with agitation running. The convenience of a liquid means that Headstart is easy to measure into specific quantities for specific jobs.

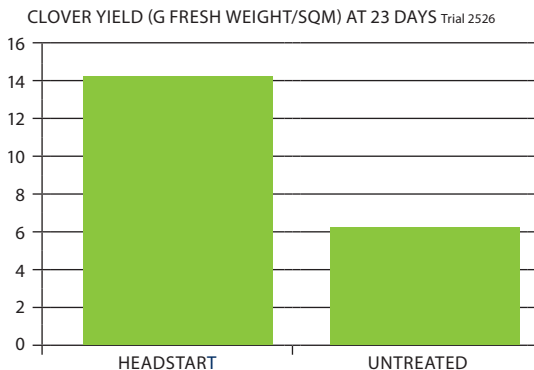
Application: Use conventional ground rig equipment, set up to deliver a medium droplet size spectrum for crop and weed penetration. Headstart is best applied in 100-300 litres of water and can be applied via aerial methods.

Timing: Apply Headstart when weeds are small and in active growth, with good soil moisture but not in wet and cold conditions. When applied alone, Headstart can be sprayed when clover is at the two true leaf stage.

Adjuvant: Headstart has sufficient wetting ability due to Oleo technology and further adjuvants are not required.

Compatibility: Headstart can be tank mixed with other broadleaf herbicides for specifically targeted weeds. Tank mixes with selective grass killers over broadleaf crops can also be made where the addition of adjuvant can be reduced further.

Headstart is an innovative new herbicide for weed control in young and mature pasture, clover, lucerne and chicory. Using Arxada's unique Oleo formulation technology, Headstart has an optimised adjuvant system built in. This has been designed to maximise performance in the field and save you on application time. Give your pasture the best possible start in life with Headstart, from Arxada.



THE HEADSTART ADVANTAGES

- ✓ No further surfactants or oils required
- ✓ Delivers the active ingredient immediately
- ✓ Convenient use rates & pack sizes
- ✓ Easy to measure and mix liquid
- ✓ Systemic and broad spectrum weed control
- ✓ Safe early
- ✓ Clover safety assured
- ✓ Controls difficult weeds
- ✓ Fully compatible



Arxada NZ is a company of high-performing teams who are encouraged to act with an entrepreneurial spirit, on behalf of customers.

Arxada delivers solutions for crop protection, specialising in fungicides, insecticides, herbicides, foliar nutrients and additives. With a strong focus on the development, marketing and technical support of a broad range of smart agrichemical products targeted to the needs of farmers and growers. For more information visit www.arxada.co.nz

This brochure represents findings from research, technical experience and label claims. For full use instructions read the product label.

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