

# WARNING

KEEP OUT OF REACH OF CHILDREN  
ECOTOXIC



## POLARIS<sup>®</sup> 360 HERBICIDE

GROUP **G** HERBICIDE

**A non-selective herbicide for the control of many annual and perennial weeds in a wide range of situations**

**READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING**

### Active Ingredient:

Contains 360 g/L GLYPHOSATE as the ISOPROPYLAMINE SALT in the form of a soluble concentrate

Adama New Zealand Limited  
Level 1, 19 Elms Street,  
Wakatu Estate  
Stoke 7011 New Zealand  
PO Box 1799  
Nelson 7040 New Zealand

Telephone 03 543 8275  
adama.com

NET CONTENTS

1, 5, 20, 110, 200,  
1000 L

# ADAMA

*Maree Zinzley*  
Maree Zinzley  
Manager Approvals Operations  
Regulation and Assurance



**Refer to booklet for full label instructions.**

**HAZARD CLASSIFICATIONS 6.1D, 6.4A, 9.1B**



**WARNING**



**ECOTOXIC**

**APPROVED HANDLER** - This product must be under the care of an approved handler when it is applied onto or into water and the water has the potential to leave the place containing the application area.

**TOXICITY**

**Warning –**

**May be harmful if swallowed, inhaled or absorbed through the skin**

**May cause eye irritation.**

**Avoid contact with eyes. Do not breathe spray mist and vapours.**

**ECOTOXICITY**

**Toxic to aquatic organisms with long-lasting effects.** Avoid contamination of any water supply with product or empty container.

**HANDLING PRECAUTIONS**

Keep out of reach of children.

Do not eat, drink or smoke while using.

**Equipment**

Apply using accurately calibrated and maintained equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS 8409:2004).

**Storage**

Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.

As a Class 9 Substance with Ecotoxicity Classifications storage of Polaris 360 Herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS 8409:2004) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. See Safety Data Sheet for further information.

**Transport**

Do not carry greater than 1 litre of this product on a passenger service vehicle.

**Protective Clothing**

When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection. Remove protective clothing and wash hands, arms and face with soap and water before meals and after work.

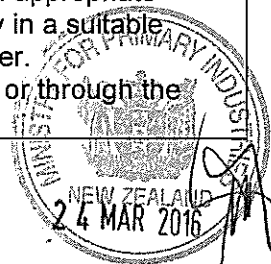
**Spillage**

Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear appropriate protective clothing as above to clean up spills. Absorb liquid spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in waste containers. Wash area with water and alkaline detergent then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

**Disposal**

Container Disposal - Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, burn in an appropriate incinerator if circumstances such as wind direction permit, or puncture and bury in a suitable landfill. Avoid contamination of any water supply with product or empty container.

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For advice, or if you feel unwell, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor.

If swallowed do NOT induce vomiting.

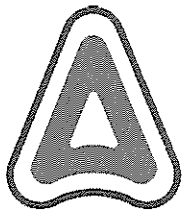
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If splashed in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

### CONDITIONS OF SALE

Adama New Zealand Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of Adama New Zealand Limited is limited to the replacement of the goods or (at the option of Adama New Zealand Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Adama New Zealand Limited within thirty days of delivery.



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PHONE 03 543 8275

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#### EMERGENCY RESPONSE

(All hours)

Ring from anywhere in New Zealand  
**0800 734 607**

In a Transport  
Emergency  
Phone 111  
Police or Fire

Batch Number:

Date of Manufacture:

Bar code to be inserted

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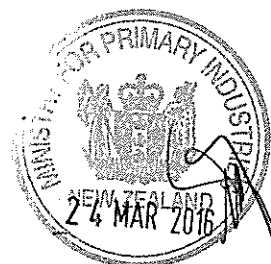
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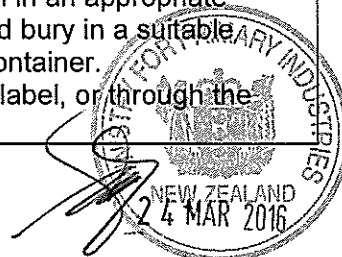
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### SAFETY DATA SHEET

A Safety Data Sheet for this product is available at [adama.com](http://adama.com) or from Adama New Zealand Limited on request. Call 03 543 7285.

**Beware: Apply this product carefully. Spray drift may cause serious damage to desirable plants. Ensure compliance with relevant regional air management plans.**

### GENERAL INFORMATION

Polaris 360 Herbicide is a non-selective herbicide for use in agriculture and horticulture.

- Before planting crops and trees
- In pasture renovation and reduced tillage systems
- For pre-harvest weed control
- In vineyards, orchards and market gardens
- On turf and recreational areas
- In drains and waterways

Polaris 360 Herbicide is water soluble and absorbed by green plant tissue and then translocated throughout the plant including the root system, to kill the entire plant. Plants should be actively growing and not under drought stress with clean foliage at the time of spraying. The product degrades in the soil and has no residual weed control activity.

Do not apply when rain is likely to occur within 6 hours of application.

Visible effects may not be apparent for 14 days depending on weather conditions, weed species and rate of application. Some perennial weeds may not show effects for 2-3 weeks.

### MIXING

Fill the clean spray tank with half the required amount of clean water. Add Polaris 360 Herbicide as required and mix well before adding the remaining water. If surfactant is required add this last to minimise foaming. Agitate well before spraying. When tank-mixing with other chemicals, add Polaris 360 Herbicide after other water-soluble concentrates, but before suspension concentrates such as a simazine 500 g/L product. Soil particles and hard water containing calcium salts deactivate Polaris 360 Herbicide. If hard water cannot be avoided, the addition of a surfactant is recommended.

### EQUIPMENT

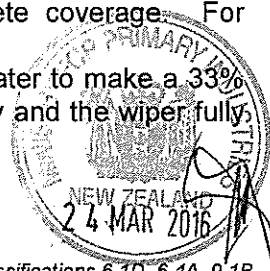
Polaris 360 Herbicide must only be applied in equipment made from stainless steel, fibreglass, plastic, aluminium, brass, or copper. All spray equipment including pumps, spray tanks, lines and nozzles, and landing gear of aircraft should be thoroughly washed with water after each spraying day.

**Boom equipment:** Application can be made in spray volumes up to 200 litres/ha using fan nozzles at pressures in the range of 200-280kPa. Boom height should be set so a double overlap of nozzle pattern is achieved at the top of the target plants.

**Aerial Equipment:** Applicable to forest and non-crop areas only. Can be applied by aircraft in spray volumes of up to 100 litres/ha. Increase spray volume in hilly terrain to ensure maximum target contact. Do not use in intensive horticultural cropping area.

**Handgun and Knapsack:** Ensure a fine spray pattern to give complete coverage. For handguns, use pressures of 1000 – 2000kPa and No. 4 and No. 6 spray tips.

**Wiper equipment:** Pre-mix 1 part Polaris 360 Herbicide in 2 parts clean water to make a 33% solution. Mix only enough for immediate use. Plants must be clean and dry and the wiper fully saturated. Apply up and down slopes for effective applications.

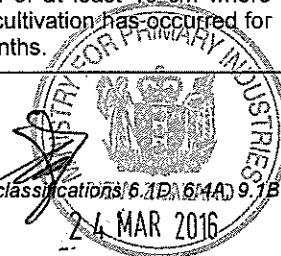


**COMPATIBILITY**

Polaris 360 Herbicide is compatible with commonly used herbicides.

**WEEDS CONTROLLED TABLE**

Weed	Boom/Aerial litres/ha	Handgun vol/100 litres	Knapsack mL/15 litres	Mistblower mL/10 litres	When to apply
Annual weeds	1 -2	200mL	30	60	Use the higher rate for larger weeds. For residual control may be tank mixed with a simazine 500 g/L product.
Australian sedge	6 - 9 (aerial)	1 litre	150	300	Apply from November to March. Burn or slash from 30 days after treatment.
Barberry	-	1 litre	150	300	Apply from flowering to late fruit stage (Jan-Apr). Regrowth should be 1.5m tall before spraying is carried out.
Barley grass	1	200mL	30	60	Apply when plants are at early seedhead stage (Sep-Dec). A simazine 500 g/L product may be tank mixed for residual control.
Blackberry	9 - 20	1.5 litres	150	300	Apply from flowering fruiting stage (Dec-Apr), before frosts occur. For hard to kill blackberry, aerial application, or no follow-up action planned, use the higher rate. Allow 6-10 weeks before slashing or burning.
Boxthorn		1.25 litres	150	-	Apply to actively growing plants (Nov-Apr). Ensure complete coverage of dense thickets. Do not use extra surfactant, or treat salt damaged bushes.
Bracken/broom	9 + 250mL Pulse	1 litre + 250mL Pulse	150 + 30mL Pulse	300 + 20mL Pulse	Apply after bracken fronds have unfurled (mid-Jan-June), but before fronds occur. For ground application to broom anytime, but for aerial application when broom is in full leaf.
Browntop	3	500mL	75	150	Apply when plants are 5-10cm high. For taller plants, graze or burn and allow regrowth of 5-10cm height before treatment.
Buddleia	9	1 litre	150	-	Apply using handgun anytime. Aerial-treat buddleia up to 2 metres high (Feb-Apr) using spray volume of 200-300 litres/ha.
Californian thistle	4	1 litre	150	300	Apply after flow bud development. Re-treatment and/or cropping or pasture improvement may be necessary to restrict re-establishment from seed. Mowing thistles 10 days after spraying may assist control.
Cleavers	1.5	500mL	75	150	Spray actively growing plants after most reach early seedhead.
Couch	3 - 6	1 litre	150	300	For suppression, apply 3.0 litres/ha in spring and repeat in autumn. For best results, apply 4-6 litres/ha in autumn to active growth of at least 10 cm where no previous cultivation has occurred for at least 6 months.



**WEEDS CONTROLLED TABLE Cont.**

Weed	Boom/Aerial litres/ha	Handgun vol/100 litres	Knapsack mL/15 litres	Mistblower mL/10 litres	When to apply
Docks	4 - 9	1 litre	150	-	Spray plants in spring or summer when actively growing and before seedheads have formed. Use the lower rate for seedlings and the higher rate for mature plants. In pasture situations boom spray prior to re-seeding or establishing crops to restrict seedling re-establishment. Under trees or vines may be tank-mixed with a simazine 500 g/L product for residual seedling control.
Floating sweet grass	6	1 litre	150	300	Spray actively growing plants after most reach early seedhead. Spraying plants under drought stress may give reduced results.
Indian doab	9	1 litre	150	-	Apply at early seedhead stage before frosts occur.
Gorse	-	1 litre + 200mL Pulse	-	-	Apply anytime ensuring complete coverage of plants not stressed by drought, grazing or previous herbicide treatment.
Kikuyu/Mercer grass	6	1 litre	150	300	Apply at early seedhead stage. On dense infestations, cut and spray the regrowth.
Nodding thistle	-	1 litre	150	-	When applying by water ensure plants are actively growing (Oct-Apr) when at least 10cm of the plant can be wiped. A double pass is recommended and follow-up with spot treatments if necessary.
Old man's beard	-	1 - 2 litres	300	-	Apply Nov-Mar prior to first leaf browning. Use higher rates on stems over 1 cm in diameter. If complete coverage is not possible plants should be cut at ground level in winter and the regrowth sprayed with the higher rate when plants are at least 50cm long (March).
Pampas grass/toetoe	-	1 litre	150	-	Spray Spring-Autumn. Reduced control may result if plants are in flower at the time of spraying. Ensure complete coverage.
Paspalum	4 - 6	1 litre	150	300	Spray at low rate if plants are at early seedhead stage. Use 6 litres/ha on mature vegetative plants, before onset of frosts.
Potato (self set)	3	500mL	75	150	Spray actively growing plants after most reach early seedhead.
Prairie grass	1.5	200mL	30	-	Apply at early seedhead stage.





**WEEDS CONTROLLED TABLE *Cont.***

Weed	Boom/Aerial litres/ha	Handgun vol/100 litres	Knapsack mL/15 litres	Mistblower mL/10 litres	When to apply
Ragwort	6	1 litre	150	-	Spray when actively growing and ensure there is sufficient leaf area for herbicide uptake. When applying by wiper use on plants 10-15cm above the pasture. For best results, a double pass is recommended with a follow-up spot treatment if necessary. Caution: Ragwort becomes more palatable after treatment. Keep stock away from treated areas until plants brown-off.
Ratstail	5	1 litre	150	-	Apply at a spray volume of 200 litres/ha in autumn. In dry conditions, delay spraying until sufficient green foliage is present.
Rautahi (cutty grass)	6	1 litre	150	300	Spray to actively growing plants from Jan-Mar. Burning or slashing may begin 30 days after treatment following brown-off.
Rushes	6	1 litre	150	300	Burning or slashing may begin 30 days after treatment following brown-off. Wiper application to be carried out in Nov-May.
Ring fern	1 - 3	300mL	50	-	For effective control, apply 3L/ha. For pasture manipulation, apply 1 - 2L/ha from Dec/Apr. Use higher rates for dense infestations. Burn 4-6 weeks after treatment.
Ryegrass	1.5 - 3 + 150mL Pulse	500mL + 100mL Pulse	75 + 30mL Pulse	-	Spray to actively growing plants 3-10cm high. Use lower rate from (perennial) Jan-Jul when cultivation is to follow spraying, and the higher rate Aug-Dec.
Sweet brier	12 + 250mL Pulse	1 litre + 200 mL Pulse	150 + 30mL Pulse	-	Spray when plant is in late flowering to early leaf yellowing stage. Ensure full coverage.
Tall fescue	6	1 litre	150	300	Apply Jan-Mar to active growth.
Willow	9	1 litre	-	-	Apply before leaf fall begins (Jan-Apr). Total spray coverage is essential for best results.
Yarrow	3 - 6	-	-	-	Apply to plant with 5-10cm of leaf. For best results cultivate 10 days after treatment. Use the low rate when a crop to be drilled is competitive to yarrow and higher rate when it is a poor competitor.

**DIRECTIONS FOR USE:**

**Agricultural Areas:** May be used for the control of annual and perennial weeds as indicated in the Weeds Controlled Table, prior to sowing any crop.

**Minimum Tillage:** For total weed control prior to seeding in a reduced tillage system. Weeds should be actively growing and not under stress from frost, drought or waterlogging. In pastures where only annual weeds are present use 1 litre/ha to control seedling annual weeds and 3 litres/ha to control mature annual weeds. For perennial weeds the higher rate of 3 litres/ha with the addition of organo-silicone surfactant at 200mL/100 litres is recommended. For the

improved control of white clover, tank mix with a dicamba 200 g/L product at 1.5 litres/ha. Do not plant legume crops within 28 days of applying dicamba. Cultivation may start from 7 days after spraying perennial and 3 days for annual weeds. Cultivation should occur within 21 days after spraying. Do not sow until a satisfactory seedbed is formed.

**Pasture:** Spot application to specific weeds. May be applied to control a wide range of weeds in pasture. It is non-selective and may damage or kill any plant in the spray area.

**Pre-Harvest:** Wheat, barley, oats and threshing peas.

Spray 7-12 days prior to harvest when the grain moisture is less than 30%. Do not harvest within 7 days after spraying. Do not spray undersown crops. Do not spray crops that will be harvested for seed.

**Threshing peas:** Apply 7-14 days prior to harvest when the pods have dried. Avoid treating plants under drought stress.

**Orchards/Vines:** Crops – citrus, apple, pear, stonefruit, kiwifruit, grapes.

Apply as a directed or shielded spray. For long term control of annual weeds Polaris 360 Herbicide may be tank mixed with an approved herbicide for residual control. Do not apply to unprotected trees less than 3 years old. Do not allow spray or spray drift to contact any part of the stonefruit tree, or green bark, suckers, buds, foliage or fruit of other trees. Spray before crops bud, sucker or bloom.

**Market Gardens:** Applied before or after seeding but prior to crop emergence.

Spraying can also be made prior to transplanting or as a post-harvest clean up. For longer-term control of seedling weeds it may be tank mixed with an approved residual herbicide such as a simazine 500 g/L product in accordance with label recommendations.

**Asparagus:** Pre-crop emergence and post-harvest applications.

Apply prior to planting or crop emergence. Do not treat emerging spears. Application can also be made after removal of all spears but before crop regrowth occurs. In established ferns, apply as a directed or shielded spray or with wiper equipment. Do not allow spray, spray drift or the wiper surface to contact any part of the asparagus plant

**Industrial and Non-Agricultural Areas:** Treat specific problem weeds as indicated in the Weeds Controlled Table. Do not allow spray drift.

**Recreational Areas:** Lawns, turf, parks, reserves and ornamentals. Apply before the sowing and planting of these areas. In mown areas, allow sufficient regrowth before spraying. Can also be sprayed around the base of established trees or shrubs, as a directed or shielded spray or with wiper equipment. Avoid spray drift or contact of the wiper surface with any part of the shrub or tree.

**Drains and Waterways:** For best results ensure that 75% of the weed to be sprayed is above water level. Avoid treating silt-laden weeds. Following spraying do not submerge the weed, as this will cause the herbicide to be washed off.

**Forestry:** For the control of grasses and weeds as listed in the table. Can be applied for weed control prior to burning or planting of forest or nursery or around already established trees. Do not allow spray drift or spray contact with foliage or green bark of desirable trees.

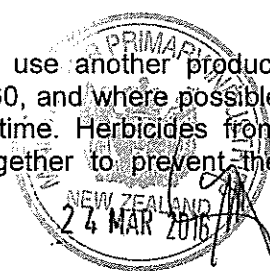
**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.**

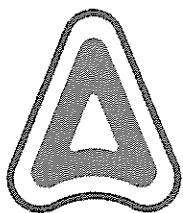
## RESISTANCE MANAGEMENT

POLARIS 360 contains the GROUP G herbicide, glyphosate. Do not use another product containing a herbicide in the same group in conjunction with POLARIS 360, and where possible alternate the types of herbicides used within any one paddock over time. Herbicides from different group codes should either be used alternately or mixed together to prevent the numbers of resistant individuals building up.

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