

**WARNING**  
**ECOTOXIC**



**Apache**<sup>TM</sup>

**HERBICIDE**

**ACTIVE INGREDIENT:** 375 g/kg aminopyralid as the potassium salt and 300 g/kg metsulfuron-methyl in the form of a water dispersible granule.

<b>GROUP</b>	<b>03 B</b>	<b>HERBICIDE</b>
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**For control of brushweeds, as well as annual and perennial weeds in pasture and waste areas.**

**READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING**

**CONTENTS: 500g**

**Dow AgroSciences (NZ) Limited**  
89 Paritutu Road, Private Bag 2017, New Plymouth 4342  
[www.corteva.co.nz](http://www.corteva.co.nz)  
Telephone: 0800 803 939  
[www.corteva.co.nz](http://www.corteva.co.nz)

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Apache<sup>TM</sup> Herbicide

7th October 2019

**HAZARD CLASSIFICATION:** 6.3B, 9.1A, 9.2B

**APPROVED HANDLER**

This product must be under the personal control of an approved handler when:

- a) applied in a wide dispersive manner; or
- b) used by a commercial contractor.

**RECORD KEEPING**

Records of use, as described in relevant HSNO Act regulations and The New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3 kg of Apache™ is applied, or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

**TOXICITY**

WARNING – MAY CAUSE MILD SKIN IRRITATION. Avoid contact with skin.

**ECOTOXICITY**

VERY TOXIC TO AQUATIC ORGANISMS. **DO NOT** contaminate any water supply or aquatic environment with product or empty container. **DO NOT** spray over, or allow to drift over, an aquatic environment.

SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Certain plants may be damaged or killed from contact with this product. **DO NOT** allow spray to drift outside the target area.

**HANDLING PRECAUTIONS**

**EQUIPMENT**

Apply using well maintained equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.

**STORAGE**

Store in original container tightly closed and in a locked, dry, cool, well-ventilated area, away from foodstuffs. Storage must be generally in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing more than 100kg of Apache™ (or substances of the same hazard class) require containment, emergency response plans and are subject to signage and emergency response plans. See the Hazardous Substances Emergency Management Regulations 35 – 41 and NZS8409 for further information.

**PERSONAL PROTECTION**

When mixing or applying the spray wear eye protection, cotton overalls buttoned to the neck and wrist, chemical resistant gloves and boots made of a material such as rubber, nitrile, polyethylene or polyvinyl chloride.

Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.

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### **SPILLAGE**

**DO NOT** touch or walk through spilled material. Wear the protective equipment recommended above. Sweep up material and contain in a refuse vessel for disposal. Disposal of the contaminated material must be done in an appropriate landfill according to local by-laws and regulations.

### **DISPOSAL**

Triple rinse empty containers and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label, that are free of all residues (liquid and dry) and have an intact legible label should be taken to an Agrecovery Container collection site. Otherwise crush or puncture and bury in a suitably approved landfill. **DO NOT** burn empty containers.

Dispose of the product only by using according to the label, via Agrecovery (visit [www.agrecovery.co.nz](http://www.agrecovery.co.nz) or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. **DO NOT** burn.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

**DO NOT** dispose of this product; spray mix or equipment cleaning water down drains or sewers

### **FIRST AID**

If swallowed do not induce vomiting, give a glass of water. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

### **TRANSPORT**

Do not carry more than 10 kg of this product on a passenger service vehicle.

### **SAFETY DATA SHEET**

A Safety Data Sheet for Apache™ is available from Corteva Agriscience™ on request. Call Customer Service Toll Free on 0800 803 939.

### **DIRECTIONS FOR USE**

**DO NOT** apply to weeds which are dormant or stressed due to prolonged periods of extreme heat or cold, moisture stress (water-logging or drought), dusty or salty conditions or a previous herbicide treatment.

If plants have been heavily slashed or grazed, ensure adequate foliage regrowth before treatment.

**DO NOT** apply onto or into water.

**DO NOT** use on turf or home gardens. Use of aminopyralid-contaminated turf cuttings may harm organisms in the soil environment.

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**DO NOT** spray if rain is likely to occur within three hours or if heavy rain is likely to occur within 48 hours.

**DO NOT** allow the spray to drift onto susceptible crops.

**DO NOT** apply close to, or onto, areas containing roots of desirable plants, where treated soil may be washed to areas growing, or to be planted with desirable plants, or on sites where surface water from heavy rain can be expected to run off to areas containing or to be planted with susceptible crops or plants.

**DO NOT** sow susceptible crops into paddocks treated with Apache™ until after the required plantback period has elapsed. See the CROP ROTATION section.

**DO NOT** use plant material that has been treated with Apache™ within the previous 12 weeks for making compost, mushroom substrate or mulching susceptible crops - see the CROP ROTATION section.

**DO NOT** use hay or other plant material harvested within 12 weeks of treatment with Apache™ for making compost or mulching susceptible crops

**DO NOT** use manure, paunch grass or dairy effluent from animals grazing in areas treated with Apache™ within the previous 12 weeks for making compost unless the 4 day slaughter interval (see withholding period statement) has been observed

**DO NOT** move soil, which may have been sprayed, to areas where desirable plants are to be grown.

**COMPATIBILITY:**

If appropriate, Apache™ may be tank mixed with glyphosate.

**MIXING:**

**Equipment must be decontaminated BEFORE and AFTER the application of Apache™.**

Apache™ is a water dispersible granule to be mixed with water. Apache™ should be added to the spray tank while agitating. If the ability to agitate the spray tank is limited, premix Apache™ in a bucket before adding to the main tank. Once diluted correctly, Apache™ remains dispersed. APACHE™ MUST BE KEPT IN SUSPENSION IN THE SPRAYMIX AT ALL TIMES BY CONTINUOUS AGITATION.

When a prepared spray solution has been allowed to stand, thoroughly re-agitate before using. In tank mixes, Apache™ must be in suspension before adding any partner product or surfactant.

**DO NOT** store a suspension of Apache™ for more than 1 day – otherwise significant breakdown will occur.

**If tank mixing with glyphosate, the following order should be followed:**

1. Quarter fill the spray tank, **and while maintaining agitation:**
2. Add Apache™ (as described above).
3. Add water to ½ - ¾ fill the spray tank.
4. Add glyphosate and allow to thoroughly mix.
5. Add Boost™ Penetrant.
6. Add water to bring to the final spray volume.

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### **USE OF SURFACTANT/WETTING AGENT:**

Corteva Agriscience does not support the use of Apache™ with wetting agents other than Boost™ Penetrant.

### **APPLICATION:**

Apache™ must be applied via ground-based methods only.

Apply using well-maintained, accurately calibrated spray equipment. Use under meteorological conditions, or with spraying equipment, that will minimise drift.

**Always ensure thorough coverage.**

**Knapsack:** Apply as a light wetting spray to full coverage.

### **High Volume Handgun application:**

Apply to the centre of the plant minimising spray drift onto pasture. Spray foliage stems and canes until wet. Ensure coverage is uniform and complete.

Use pressures of 1000-2000 kPa depending on target species and size of bush. Use a no. 6 nozzle tip. For larger bushes, use a higher water volume, higher pressures and ensure penetration into the centre of the bush.

### **CLEANING SPRAY EQUIPMENT:**

Small amounts of Apache™ will damage pastures and susceptible crops (See CROP ROTATION section).

To avoid subsequent injury to crops, immediately after spraying thoroughly remove all traces of Apache™ from mixing and spray equipment as follows:

- Wash down exterior of sprayer before flushing tanks, lines, etc
- Drain tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any tank, pump, line and nozzle filters for a minimum of 10 minutes.
- After cleaning the tank as above, fill the tank with clean water and add 300 mL household chlorine bleach (containing 4% chlorine) per 100 L of water. Household bleach should be less than 12 months old, and stored away from direct sunlight. Flush the hand-gun or knapsack wand and hoses then allow to stand for 15 minutes with agitation engaged, then drain.
- Drain tank, then flush tank, the handgun or knapsack wand and hoses with clean water for a minimum of 10 minutes.
- Nozzles, screens, filters, relief valves, dump lines, caps and taps at the end of spray lines, tank lids, flow meters, lines to pressure gauges, external tank indicators, induction hoppers, etc. should be removed/pulled apart and cleaned separately. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

**CAUTION: DO NOT** use chlorine bleach with ammonia.  
**DO NOT** clean equipment in an enclosed area.

**Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto unused land away from desirable plants and their roots and watercourses.**

### **MAXIMUM RESIDUE LIMITS**

**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.**

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**Withholding Periods (WHP):**

**Meat: DO NOT graze non-milking stock within 1 day of application.**

Animals grazing pasture more than 7 days after treatment with **Apache™**, may be sent for slaughter. Animals grazing treated pasture within 7 days of application, must be grazed for at least 4 days on clean feed before being sent for slaughter. Clean feed is a paddock where there is no grazing restriction in force at the time of grazing.

**Cutting for animal feed e.g. hay or silage: DO NOT** cut treated paddocks for animal feed for 12 weeks after application.

**Milking stock: DO NOT** graze animals currently being milked on areas treated with **Apache™** within 3 days of application.

**RAINFESTNESS:**

**DO NOT** apply if rain is likely within 3 hours or if heavy rain is likely to occur within 48 hours.

**RE-ENTRY**

Wait until the spray has dried. If prior re-entry is required wear, the personal protective equipment as directed in the safety directions section of this label.

**ANIMAL WASTE**

**DO NOT** use animal waste (e.g. manure, slurry, paunch grass) from animals grazing pasture treated with **Apache™** within the previous 12 weeks for making compost or mulching susceptible crops. Animals become residue free after grazing for 4 consecutive days on clean feed. **Clean feed is a paddock where there is no withholding period or grazing restriction for Apache™ or any other product in force at the time of grazing.**

**DO NOT** apply animal waste (e.g. manure, slurry), from animals grazing treated pastures with **Apache™** within the previous 12 weeks, to susceptible crops, or to land used for growing susceptible crops - see the Crop Rotation section.

Unless fed on clean feed (see above for clean feed explanation) for 4 days, the purchaser of animals grazing on pasture treated with **Apache™** within the last 12 weeks must be advised that paunch grass, manure and slurry from these animals may contain residues and hence the purchaser must follow the relevant Protection for the Environment restrictions on this label. This restriction is no longer required once 12 weeks has elapsed from treatment to grazing.

**DO NOT** plant a susceptible crop in fields treated in the previous year with manure from animals that have grazed treated pasture within 12 weeks of application until a field bioassay shows that the residue concentration in the soil is at level that is not injurious to the crop to be planted - see the Crop Rotation section.

To promote herbicide decomposition, manure should be evenly incorporated into the soil surface. Breakdown of residues in plants or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

**Dairy and feed pad effluent.** Effluent from animals grazing treated pasture within 12 weeks of treatment may contain residues. Effluent from these animals may contain residues for 4 days after removal of the animals from the **Apache™** treated pasture. Disposal of this effluent by irrigation may cause damage to clover and other sensitive crops during this 4 day period.

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**DO NOT** send off-farm, any effluent (or compost made from it), from animals that have grazed on pasture treated with Apache™ within the last 12 weeks until the animals have grazed 4 days on clean feed (see above for clean feed explanation). This restriction is no longer required once 12 weeks has elapsed from treatment of grazing.

#### **PROTECTION OF LIVESTOCK**

- **DO NOT** graze or cut treated crops or plants for stock food except as specified under WITHHOLDING PERIODS. It is recommended, however, not to graze treated areas for 2 to 3 days to ensure product efficacy.
- **Poisonous plants may become more palatable after spraying and stock should be kept away from these plants until they have died down.**

#### **CROP ROTATION**

##### **RE-ESTABLISHMENT OF PASTURES AND PLANTING OF FOLLOWING CROPS**

**Apache™** is injurious to pasture grasses, forage brassicas, legumes and other broadleaf plants. Residues in the soil may prevent their early re-establishment after treatment. Susceptible broadleaf crops and plants include but are not limited to, flowers, fruit trees, legumes (including pasture & forage legumes), ornamentals, potatoes, shade trees, squash, tomatoes, vegetables, or vine crops. Susceptible crops and plants may be damaged by this herbicide during both growing and dormant periods. If in doubt regarding other crops, or for further information consult a Corteva Agriscience representative.

The rate of decline of soil residues is dependent on several factors (including soil type and rainfall) and will vary from district to district. Under low rainfall conditions (less than 800mm per year) or in heavy, poor draining soil, delay planting of susceptible broadleaf crops for at least 2 years unless first tested using the bioassay method described below. Delay planting of improved pasture grasses for at least 12 weeks.

To promote herbicide decomposition, plant residues from the treated crop should be evenly incorporated in the surface soil. Breakdown of residues in plants or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

***Where Apache™ residue carryover is suspected and susceptible crops are to be planted, test the treated area as follows:***

***Field bioassay*** –plant a small area of the susceptible crop 4 to 6 weeks before the desired planting date and take note of any symptoms of injury in germinating seedlings. If any herbicide symptoms are observed, **DO NOT** plant the crop.

***Pot bioassay*** – where it is not practical to do field bioassay, plant a small number of seeds of the susceptible crop into pots containing soil from throughout the treated field. Do this test 4 to 6 weeks before the desired planting date. If any herbicide symptoms are observed in germinating seedlings, **DO NOT** plant the crop. Subterranean clover is highly sensitive to Apache™ and therefore is a good test species for a bioassay.

<b>BRUSHWEEDS</b>			
Refer to <b>APPLICATION</b> section above			
<b>WEEDS</b>	<b>HANDGUN RATE/100L WATER</b>	<b>KNAPSACK RATE/10L WATER</b>	<b>COMMENTS</b>
Fennel	10 g	2 g	Apply when weeds are actively growing.
Gorse	40 g	10 g	Apache™ may be applied at any time of year, but best results are obtained during active growth. Always add Boost™ Penetrant (100ml/100L).

<b>BROADLEAF WEEDS IN WASTE AREAS</b>			
Tank mixing with glyphosate is recommended if control of grass weeds is also desired. Refer to the glyphosate label.			
<b>WEEDS</b>	<b>HANDGUN RATE/100L WATER</b>	<b>KNAPSACK RATE/10L WATER</b>	<b>COMMENTS</b>
Broadleaf weeds (waste areas)	10 g	2 g	For control of a wide range of broadleaf weeds on roadsides, water tables, drains and industrial plant sites – apply when weeds are actively growing.

<b>BROADLEAF WEEDS IN PASTURE</b>			
Apache™ is very damaging to clover / ryegrass pastures. Tordon™ PastureBoss™ is the preferred herbicide to control the below weeds in pasture and other situations where damage to grasses is NOT desirable. Refer to the Tordon™ PastureBoss™ label.			
Poisonous plants: refer to <b>PROTECTION OF LIVESTOCK</b> section above.			
<b>WEEDS</b>	<b>HANDGUN RATE/100L WATER</b>	<b>KNAPSACK RATE/10L WATER</b>	<b>COMMENTS</b>
Ragwort and thistles	5 g	2 g	Apply to the centre of rosette plants.
	10 g	2 g	Apply to the centre of multi-crowned plants or early flowering plants. Seed from treated plants is not viable.
Californian thistles Capeweed Docks	25 g	5 g	Apply during active growth from full leaf to early flowering after all risk of frost has passed. California thistle – retreatment may be required.

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Giant buttercup Hemlock Horehound Inkweed Woolly mullein	25 g	5 g	Apply during active growth after all risk of frost has passed. Add Boost Penetrant to improve wetting.
Goats rue	25 g	5 g	Apply during active growth after all risk of frost has passed.

## RESISTANCE WEEDS MANAGEMENT

<b>GROUP</b>	<b>03 B</b>	<b>HERBICIDE</b>
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Apache™ is a combination of pyridine carboxylic-acid (Group 03) and sulfonyl urea (Group B) groups of herbicides. Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximize the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program. Consult [www.resistance.nzpps.org/](http://www.resistance.nzpps.org/) for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

### NOTICE

**Important:** You must read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

**Warning:** This product is subject to controls and could be hazardous if handled incorrectly. The user is responsible for ensuring that the handling of this product is in accordance with the law (including the Hazardous Substances and New Organisms Act 1996 and the Agricultural Compounds and Veterinary Medicines Act 1997) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines. Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand ([www.epa.govt.nz](http://www.epa.govt.nz)) or the Ministry for Primary Industries (MPI) ([www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)). This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

<b>Registered to:</b> Dow AgroSciences (NZ) Ltd* 89 Paritutu Road Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 <a href="http://www.corteva.nz">www.corteva.nz</a>	<b>EMERGENCY RESPONSE</b> (All hours) Ring from anywhere in New Zealand  <b>0800 844 455</b>  Or Globally  <b>+64-6-751-2407</b>	<b>IN A TRANSPORT EMERGENCY</b>  <b>DIAL 111</b>  <b>FOR POLICE OR FIRE</b>
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\* Dow AgroSciences (NZ) Limited is a member of Corteva Agriscience group of companies



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Registered pursuant to the ACVM Act 1997, No P008731  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR100843  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls

	Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron- methyl)
	UN Number:	3077
	Class:	9
	Packing Group:	III
	HAZCHEM	2X
	MARINE POLLUTANT	YES



Date of Manufacture:

Batch No.

Barcode

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