



Asulan® DC

A selective herbicide for the control of docks and bracken.

<u>Active Ingredient:</u>	365g/litre asulam sodium salt
<u>Chemical Group:</u>	Carbamate – GROUP I HERBICIDE
<u>Formulation:</u>	Soluble concentrate
<u>Pack Size:</u>	10 litres

Asulan® DC is a proven performer against Docks (*Rumex spp.*) and is selective to clover, ryegrass and tall fescue. It is effective against established Docks and is an effective resistance management herbicide to alternate with other chemical groups to avoid resistance developing.

Asulan DC – for dependable Dock control:

- Effective resistance-management herbicide for Dock control ✓
- High degree of pasture safety ✓
- Cost effective ✓
- Easy-to-use liquid formulation ✓
- Selective to ryegrass and clover ✓



adria
crop protection

Asulan DC is a selective weedkiller recommended for the control of:

Docks - in established pasture, lucerne, orchards, kiwifruit, some horticultural crops and non-cropping land;

Bracken - for long term control in farmland, forestry and non-crop land situations and for the releasing of radiata pine in forestry areas.

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

DIRECTIONS FOR USE: DOCKS: Preparation: About half fill the spray tank with water, add the required amount of Asulan DC and top up with water. Ensure thorough mixing before use.

Spray Volume: A spray volume of about 200 litres per hectare is recommended for boom spraying. Spot Application: Use a standard dilution of 460mls per 100 litres of water, spraying foliage to the point of run off. N.B.: Do not add additional surfactants to Asulan DC solutions being used for dock control.

Situation	Rate Per Hectare	Application
Established Pasture	3.3-4.4* litres or spot application	Spray in spring when the docks are actively growing and in FULL LEAF. Avoid spraying after seed heads begin to emerge. DO NOT SPRAY IMMEDIATELY AFTER GRAZING. Allow a recovery period of at least 2 weeks after grazing before applying Asulan DC. NOTE: Asulan DC may cause slight yellowing of some past pasture species, but they will normally recover quickly in good growing conditions. THE CHECK TO GROWTH IS MINIMISED IF THE PASTURE IS LEFT FOR AT LEAST 2-3 WEEKS AFTER GRAZING BEFORE SPRAYING. DO NOT APPLY TO GRASS SEED CROPS.
Established Lucerne	3.3-4.4* litres or spot application	Spray in Autumn three weeks after the last cut has been taken. Ensure conditions favour growth at the time of spraying. Alternatively spray in spring as soon as the docks break dormancy and develop full leaves. Do not spray between cuts in spring and summer.
Orchards, Non-Cropland (road verges, etc)	4.4 litres or spot application	Spray in spring or autumn when the docks are actively in full leaf.
Kiwifruit (established)	4.4 litres or spot application	Spray in early spring. Spray under the vines taking care not to allow spray to contact the crop foliage.
Raspberries, Boysenberries, Gooseberries and Currants	Spot application	Spray in early spring. Avoid spray falling on the crops as much as possible.
Asparagus	Spot application	Spray BEFORE SPEAR EMERGENCE or after cutting has been completed. Do not spray during the harvesting period.
Red Clover	3.3 litres	Spray in spring shortly after closing the paddock for hay (if taken) or seed. Allow time for the docks to recover after grazing before spraying. DO NOT SPRAY IN DECEMBER AFTER CUTTING FOR HAY. In dry seasons this may cause a check to the clover with a subsequent reduction in seed yield. DO NOT APPLY TO WHITE CLOVER SEED CROPS.

* Use the higher rate where there are heavy infestations of well-established docks.

DO NOT SPRAY IN DROUGHT CONDITIONS. DO NOT SPRAY WHEN RAIN IS LIKELY WITHIN 12 HOURS OF SPRAYING.

BRACKEN: Asulan DC can be used to control bracken fern (*Pteridium aquilinum* var. *esculentum*) for forestry site preparation, agricultural land development and for clearing roadsides. These uses require that Asulan DC be mixed with an organosilicone penetrant. Asulan DC can also be used to release young radiata pine from bracken fern. Different times of application for (1) long term control and (2) tree releasing must be clearly understood. LONG TERM CONTROL WILL NOT BE OBTAINED IF IMMATURE FRONDS ARE TREATED. NOTE: APPLICATIONS WHEN FRONDS ARE FULLY EXPANDED WILL NOT GIVE A RELEASING EFFECT. MIXTURES WITH AN ORGANOSILICONE PENETRANT SHOULD NOT BE USED FOR RELEASING YOUNG TREES. **Long Term Control:** Preparation: About half-fill the spray tank with water. Add the correct amount of ORGANOSILICONE PENETRANT. Add the required amount of Asulan DC, top up with water and ensure thorough mixing before use.

Situation	Rate/Hectare	Application
Forestry and Farmland	Aerial Application: 15.3 litres Asulan DC plus organosilicone penetrant in 100-300 litres water. Ground Application: 12 litres Asulan DC plus organosilicone penetrant in 100-1000 litres water.	Apply to fully expanded bracken fronds after the stage of frond unfurling, but before they are damaged by winter frosts. This would normally be in late summer or early autumn.

NOTE: Asulan DC does not cause any immediate visible effects on bracken present at spraying. The full effects will not be evident until the spring following treatment when the emergence of new fronds will be prevented. Post-spray treatment: Following application a period of not less than FOUR WEEKS should elapse before the frond canopy is removed to allow subsequent operations, e.g. tree planting, re-seeding, to take place. A shorter interval will result in inferior control.

Releasing Radiata Pine: Preparation: About half fill the spray tank with water, add the required amount of Asulan DC and top up with water. Ensure thorough mixing before use.

Situation	Rate/Hectare	Application
Forestry	Aerial Application: 15.3 litres Asulan DC in 100-300 litres water. Ground Application: 12 litres Asulan DC in 100-1000 litres water.	Apply in the early summer period when the majority of fronds are just beginning to expand rapidly. At this stage the two lowest pinnae (frondlets) should be well, but not fully, expanded and pinnae further up the frond beginning to unfurl.

Resistance Management: Asulan DC contains a **GROUP I** herbicide belonging to the carbamate group of chemistry, with the Inhibition of DHP (dihydropteroate) synthase mode of action. Resistance to these herbicides could develop from excessive use. To minimise this risk use strictly in accordance with label instructions and resistance management strategies at:

www.nzpps.org/resistance.

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