

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 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 Per 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 Per 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.

WARNING
KEEP OUT OF REACH OF CHILDREN

Asulan DC®

A selective herbicide for the control of docks and bracken.

Active Ingredient: 365g/litre asulam as the sodium salt in the form of a soluble concentrate.

GROUP I HERBICIDE

Registered pursuant to the ACVM Act 1997 No. P9148
See www.foodsafety.govt.nz for registration conditions

EPA Approval Code: HSR000424

HSNO Classifications: 6.3B, 6.4A, 6.8B, 9.1C, 9.2D

This product must be under the care of an approved handler at all times.

In a transport emergency dial 111, Police or Fire Brigade.

For specialist advice in a First Aid emergency only call:
National Poisons Centre on 0800 764 766.



Net Contents: 10 litres



WARNING: Harmful - may cause skin irritation. Harmful - may cause eye irritation. Harmful -may cause reproductive/development damage from repeated oral exposure. Harmful to aquatic life with long-lasting effects. Harmful to the soil environment.

WARNING:This substance may be harmful if swallowed, inhaled or absorbed through the skin, and may cause irritation to eyes. Avoid eye contact. Avoid inhalation of vapours or mist from spray. May cause internal organ damage from repeated oral exposure at high doses.

PRECAUTIONS: APPROVED HANDLER: This product must be under the control of an approved handler during use. Store in original container, tightly closed, away from foodstuffs in a cool dry, secured area. Avoid contact with skin and eyes, and inhalation of spray mist. Wash hands and exposed skin before meals and after work. Avoid contamination of any water supply with chemical or empty container.

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

HARMFUL TO AQUATIC LIFE WITH LONG-LASTING EFFECTS. A strategy to minimise spray drift should be employed at all times when applying spray near aquatic environments.

DISPOSAL OF CONTAINER:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal. Avoid contamination of any water supply with chemical or empty container.



FIRST AID: If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately. If spilt on the skin, remove contaminated clothing and wash affected areas of skin. DO NOT SCRUB THE SKIN. If concentrate is splashed in eyes flush with running water for at least 15 minutes. Take to hospital without delay.

SPILLS: Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

SAFETY DATA SHEET: Additional information is available at www.adria.nz or Ph: 09-412-9817.

Batch No. and Manufacturing Date: See on packaging

Registered to and Distributed by: Adria New Zealand Ltd.
P.O. Box 535
407 State Highway 16
Kumeu, Auckland
Ph: 09 412 9817 Fax: 09 412 9807



Notice to Buyer: Careful tests have proved that the product is suitable for the recommended purposes when used in accordance with our instructions. However, since storage and use of product are beyond our control, we do not therefore accept any liability for damage or loss of efficacy which may result from the use of this product, whether used in accordance with the directions or not. We are liable for a consistent quality of the product, but the risk of its storage and use is not borne by us.

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.

BEWARE: APPLY THIS PRODUCT CAREFULLY. SPRAY DRIFT MAY CAUSE SERIOUS DAMAGE TO OTHER DESIRABLE PLANTS.