

ECOTOXIC

Nufarm

DOCKSTAR[®]

**Active Ingredient: 390g/litre asulam as sodium salt
in the form of a soluble concentrate**

**Selective systemic herbicide for the
control of docks, yellow bristle grass
and bracken**

FREE RECYCLING



www.agrecovery.co.nz

04-18/PS/00190-20L/NZ1.2



9 414614 019012

20 Litres



Grow a better tomorrow.

HAZARD CLASSIFICATION

6.3B, 6.4A, 6.8B, 9.1C, 9.2D

This product must not be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation.

HARMFUL

- May cause skin or eye irritation. May cause reproductive/development damage from repeated oral exposure.

ECOTOXIC

- Harmful to aquatic organisms with long lasting effects. Avoid contamination of any water supply with product or empty container.
- Harmful to the soil environment
- Selective herbicide – very toxic to some plant species. **BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage for other desirable plants.** Do not allow drift to occur outside the target area.

HANDLING PRECAUTIONS**STORAGE**

- Keep out of reach of children.
- Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, seeds, and fertilizers. Storage must be in accordance with NZS 8409 Management of Agrichemicals.
- Stores containing 1000L of Dockstar require signage and secondary containment, and more than 1000L require emergency response plans.

PERSONAL PROTECTION

- Avoid contact with skin or eyes and inhalation of spray mist.
- When handling wear eye protection, waterproof gloves, boots and overalls. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

EQUIPMENT

- Apply using well maintained and accurately calibrated spray equipment. Clean equipment thoroughly after use.

DISPOSAL

- Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.
- Dispose of product only by using according to the label, or at an appropriate landfill.

First Aid: If swallowed do NOT induce vomiting. 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. If splashed in eyes, wash out immediately with water. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

Registered pursuant to the ACVM Act 1997, No P9015
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval Code: HSR000424.
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Dockstar® is a registered trademark of Nufarm Limited.

®Pulse is a registered trademark of Nufarm Technologies USA

CONDITIONS OF SALE:**CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER**

If you open this container you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop and crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.

When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.

Marketed by: Nufarm Limited
6 Manu Street, Otahuhu, Auckland NZ
Telephone 09 270 4157
www.nufarm.co.nz

Batch No:

D.O.M:

Nufarm Emergency Phonenumber: 0800 651 911 toll free 24 hours.

04-18/PS/00190-20LNZ2.2

Spillage: Wear appropriate protective clothing and prevent material from entering waterways. Absorb spill with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

Transport: Do not carry this product on a passenger service vehicle.

Resistant Weeds Warning: Resistance to this herbicide could develop from excessive use. Dockstar contains a **GROUP 1 HERBICIDE** with the inhibition of DHP (dihydropteroate synthase) mode of action. To prevent or delay the development of resistance use Dockstar in tank mixtures where appropriate and/or in rotation with herbicides having a different mode of action. Consult www.nzpps.org/resistance/index.php for alternative modes of action, and the details of resistance management strategies (if any).

Mixing/ Compatibility: Half fill the sprayer with water. With the agitators running add the required quantity of Dockstar to the spray tank and top up with water. Where Pulse is required this should be added last when the tank is almost full to minimise foaming. Maintain agitation until spraying is completed. When applying in tank mixture with Baton follow all directions and precautions on the Baton label.

GENERAL INFORMATION

Dockstar is a selective systemic herbicide for the control of docks in established pasture, lucerne, red clover, orchards, some berryfruit crops, asparagus and on non-cropping land.

Dockstar may be used to control bracken fern in forestry site preparation, agricultural land development, on roadsides, and for tree release in young radiata pine plantations.

Dockstar may also be used to control seedling and vegetative yellow bristle grass in established perennial pasture.

Do NOT apply if rain or frost is expected, or if the foliage is wet.

Do NOT add wetting agents when Dockstar is being used for the control of docks or yellow bristle grass.

Do NOT apply to weeds under drought stress.

Rainfall or irrigation within 12 hours of application may reduce effectiveness.

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.

Directions for Use:

Control of docks:

CROP	TIMING	RATE/HA	NOTES
Established perennial pasture	Apply in spring when docks are actively growing and in full leaf. Avoid spraying after seed heads have emerged.	3.1-4.1 litres/ha in 200 litres of water/ha or spot application.	Use the high rate on heavy infestations of mature docks. Dockstar may cause temporary yellowing of some pasture species. To minimise any check to growth do NOT spray immediately after grazing. Leave pasture for at least 2-3 weeks after grazing before spraying. Do NOT apply to grass seed crops. “Not suitable for use on brome, browntop or prairie grass based pasture”
	Make a single application in spring only. Apply when docks are actively growing and in full leaf. Avoid spraying after seed heads have emerged.	2 litres/ha + Baton 2kg/ha in 150-200L of water/ha	The tank mixture with Baton will control docks and a range of other broadleaf weeds on the Baton label. Some temporary pasture yellowing and growth suppression may occur. To minimise any check to growth do NOT spray immediately after grazing. Leave pasture for at least 2-3 weeks after grazing before spraying. After spraying with Baton, poisonous plants (eg. ragwort) may become more palatable. To maximise control of mature docks and prevent harm to stock avoid grazing for 1-2 weeks after spraying. Not suitable for use on brome, browntop or prairie grass based pasture. Do NOT apply to grass seed crops.
Red Clover	Apply in spring shortly after closing the paddock for hay or seed.	3.1 litres/ha in 200 litres water/ha	Allow docks to recover after grazing. Do NOT spray in December after cutting for hay. In a dry season this may check the clover and reduce seed yield. Do NOT apply to white clover seed crops.
Established lucerne	Apply in autumn three weeks after the last cut has been taken. Alternatively spray in spring as soon as docks break dormancy and develop leaves.	3.1-4.1 litres/ha in 200 litres of water/ha, or spot application	Use the high rate on heavy infestations of mature docks. Ensure conditions favour good growth. Do NOT spray between cuts in spring and summer.
Orchards (Established)	Apply in spring or autumn when docks are in full leaf and actively growing.	4.1 litres/ha in 200 litres of water/ha or spot application	Avoid spraying fruit trees.
Raspberries, Boysenberries, Gooseberries, Currants	Apply in early spring.	Dilute 1:200	Spot application only. Avoid spray falling on the crop.
Asparagus	Apply before spear emergence or after cutting.	Dilute 1:200	Spot application only. Apply before spear emergence or after cutting has finished. Do NOT spray during the harvesting period.
Non-crop (eg road verges)	Apply in spring or autumn when docks are in full leaf and actively growing.	4.1 litres/ha in 200 litres of water/ha or spot application	

Spot Application: Mix 1 part Dockstar to 200 parts water. Apply to runoff.

Control of yellow bristle grass:

CROP	TIMING	RATE/HA	NOTES
Established perennial pasture	Apply in early summer after the emergence of yellow bristle grass but before seed heads are visible. Allow 7-10 days after grazing before spraying.	1.5-2.0 litres/ha in 150-200 litres of water/ha.	Seeding yellow bristle grass plants will not be controlled. Dockstar is likely to cause temporary yellowing and growth suppression of some pasture species. To maximize yellow bristle grass control, wait 7-10 days after grazing before spraying. To minimise any check to pasture growth leave for at least 2 weeks after spraying before grazing. Do NOT apply to grass seed crops. Not suitable for use on brome, browntop or prairie grass based pasture.

Control of bracken:

For long term control of bracken Dockstar must be tank mixed with Pulse® and applied to fully expanded fronds. Long term control will not be obtained if immature fronds are treated.

For releasing radiate pine Dockstar should be applied without Pulse when fronds are just beginning to expand. Applications when fronds are fully expanded will not give a releasing effect.

Dockstar does not cause immediate visible effects on bracken present at spraying. The full effects will not be apparent until the following spring when the emergence of new fronds will be prevented. After spraying do NOT remove frond canopy for subsequent operations such as tree planting for at least four weeks. A shorter interval will reduce the level of control.

SITUATION	RATE/HA	NOTES
Long term control in forestry site preparation, farmland and roadsides	Ground: 11.3 litres + Pulse (100ml/100 litres water) in 100-1000 litres/water/ha Aerial: 14.3 litres + Pulse (100ml/100 litres water)	Always use Pulse. Apply in late summer or early autumn to fully expanded fronds after the unfurling stage, but before they are damaged by winter frosts.
Releasing Radiata pine	Ground: 11.3 litres in 100-1000 litres water/ha Aerial: 14.3 litres in 100-300 litres water/ha	Do NOT use Pulse Apply in early summer 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 have begun to expand.

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