



Smackdown Herbicide

Smackdown Herbicide – 240g/L carfentrazone

Mode of Action

Smackdown is a post-emergence herbicide for the control of marshmallow and annual nettles in turf areas; addition to selective herbicides in turf; use in tank mixtures with knockdown herbicides for the improvement in the control of marshmallow and certain other broadleaf weeds, in grass pastures and in commercial, industrial and public service areas, and around agricultural buildings and yards.

Smackdown is a fast acting contact herbicide and aids in the control of weeds through a process of membrane disruption. The foliar uptake of Smackdown is rapid and plant desiccation can occur within 4 days of application. Application of Smackdown should target small actively growing weeds. Subsequent germinations will not be controlled.

Uses

To improve the control of large marshmallow (and to broaden weed control spectrum), Smackdown should be tank mixed with one of the following:

- Turf Culture Bow & Arrow Herbicide
- Jolt Selective Herbicide

Addition of Smackdown to the above products will increase the speed at which treated weeds develop visible symptoms (compared to results achieved without Smackdown) and hasten the weed death.

Smackdown can be added to Turf Culture Coliseum Herbicide to increase the speed at which treated weeds develop visible symptoms and hasten the death of Winter Grass and Ryegrass in established turf stands of Common Couch (*Cynodon dactylon*) and Hybrid Couch (*Cynodon dactylon x Cynodon transvaalensis*).

Smackdown Herbicide used in combination with glyphosate increases the rate of brownout on broadleaf weeds, broadens the weed spectrum and most importantly improves control of some tough weeds like Wild Radish, Wireweed and Marshmallow.

Benefits

- Ideal tank mix product to improve knockdown herbicides (i.e. glyphosate)
- Ideal tank mix product with Bow & Arrow Herbicide/Jolt Herbicide to improve broadleaf spectrum efficacy
- Control of marshmallow and annual nettles in turf areas
- Effective against hard to kill broadleaf weeds
- No re-seeding restrictions following applications

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DIRECTIONS FOR USE

RESTRAINTS

DO NOT use on golf greens or bowling greens.

DO NOT tank mix with any type of fertiliser.

SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Turf Common Couch Hybrid Couch Kikuyu Buffalo Qld Blue Couch	Marshmallow (<i>Malva parviflora</i>)	Apply to seedlings at 2-10 leaf stage	25 - 75 mL/ha	Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions. These rates may only provide suppression of marshmallow. To improve the control of large marshmallow (and to broaden weed control spectrum), Smackdown should be tank mixed with one of the following: <ul style="list-style-type: none"> • Turf Culture Bow & Arrow Herbicide • Jolt Selective Herbicide Addition of Smackdown to the above products will increase the speed at which treated weeds develop visible symptoms (compared to results achieved without Smackdown) and hasten the weed death.
	Annual (stinging) nettles (<i>Urtica urens</i>)			
Always add non-ionic surfactant (1000 g/L – non buffering type) such as Turf Culture Turfwett Non-Ionic Surfactant at 250mL/100 L (0.25 % v/v) of final spray volume. The addition of crop oil concentrate may result in crop injury.				
If transient discolouration occurs when using Turf Culture Bow & Arrow Herbicide or Jolt Herbicide on Kikuyu, Carpet grass, Queensland Blue Couch or Buffalo then use of this product with these products may worsen the discolouration experienced. It is recommended that small areas be tested for turf safety before large-scale application occurs.				
Turf Common Couch Hybrid Couch	Winter Grass (<i>Poa annua</i>)	Apply as a tank mix with Turf Culture Coliseum Herbicide to assist grass weed control	75 mL/ha plus recommended label rates of Turf Culture Coliseum Herbicide	The addition of Smackdown to Turf Culture Coliseum Herbicide will increase the speed at which treated weeds develop visible symptoms (compared to results achieved without Smackdown) and hasten the weed death.
	Ryegrass (<i>Lolium spp</i>)			
Always add non-ionic surfactant (1000 g/L – non buffering type) such as Turf Culture Turfwett Non-Ionic Surfactant at 250 mL/100 L (0.25 % v/v) of final spray volume. The addition of crop oil concentrate may result in crop injury.				

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DIRECTIONS FOR USE (continued)

SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
<p>Prior to sowing winter and summer broadacre crops and starting a fallow.</p> <p>To assist in weed control in Commercial, Industrial and Public Service areas, around agricultural buildings and yards.</p>	<p>Australian Crassula/ Stonecrop (<i>Crassula spp</i>)</p> <p>Capeweed (<i>Arctotheca calendula</i>)</p> <p>Chickweed (<i>Stellaria media</i>)</p> <p>Common storksbill (max. 4 leaves) (<i>Erodium cicutarium</i>)</p> <p>Doublegee / Spiny Emex / Three Cornered Jack (<i>Emex australis</i>)</p> <p>Marshmallow (<i>Malva parviflora</i>)</p> <p>Paterson's curse (<i>Echium plantagineum</i>)</p> <p>Sub. Clover (<i>Trifolium subterraneum</i>)</p> <p>Wild radish (<i>Raphanus raphanistrum</i>)</p> <p>Refer also to the product label for the knockdown herbicide used.</p> <p>If one of the above weeds is the dominant weed, and there is no specific rate for it in the knockdown herbicide's label, consult the label's generic annual-weed rate-range.</p> <p>Select from within this range to suit the weed-stage, weed-density, conditions (etc.) of your situation.</p>	<p>Apply as a tank mix with; Gladiator, Roundup PowerMAX or other glyphosate products;</p> <p>Spray.Seed, Shirquat, Nuquat or other paraquat products</p>	<p>25 - 75 mL/ ha plus recommended label rates of knockdown herbicides</p> <p>Spot spray 10 mL/100 L plus recommended label spot spray rates of knockdown herbicides</p>	<p>Addition of Smackdown to knockdown herbicides will increase the speed at which treated broadleaved weeds in general develop visible symptoms (compared to results achieved with knockdown herbicides applied alone) and may improve final control of broadleaved weeds including certain hard-to-kill weeds, marshmallow in particular. The use of higher rates may improve control of marshmallow in particular.</p> <p>Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions.</p> <p>The lower rate may only provide suppression of capeweed, wild radish, common storksbill and doublegee under poor growing conditions. Common storksbill should be no larger than 4 leaf at spraying, recently germinated and not under stress – older or stressed plants may not be adequately controlled.</p> <p>Application to hardened weeds or drought stressed weeds especially under summer conditions may cause only localised injury to weed foliage which may not enhance final weed control. Mallow growing and sprayed in the summer is especially prone to drought stress and may either not show symptoms typical of Smackdown or may re-grow following treatment although plants did not appear very stressed at application.</p> <p>Apply only as a tank mix with recommended rates of knockdown herbicides. Refer to the appropriate label for weed sizes and follow all label directions. Addition of Supercharge at 0.5% v/v may be beneficial when applying Smackdown with a glyphosate herbicide.</p> <p>When using Smackdown as a spot spray, apply in sufficient water (minimum 500 L/ ha) to thoroughly wet all weed foliage to the point of run-off.</p> <p>Addition of standard rates of a non-ionic surfactant may improve weed control.</p>

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DIRECTIONS FOR USE (continued)

SITUATION	WEEDS CONTROLLED	TIME OF APPLICATION	RATE	CRITICAL COMMENTS
Grass pastures	Marshmallow (<i>Malva parviflora</i>) Annual (stinging) nettles (<i>Urtica urens</i>)	Apply to seedlings at 2- 10 leaf stage	25 - 75 mL/ha plus recommended rates of 2,4-D	Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions. These rates may only provide suppression of marshmallow. To improve the control of large marshmallow (and to broaden weed control spectrum), Smackdown should be tank mixed with one of the following: <ul style="list-style-type: none"> • 500 mL/ha of an 800 g/L ethyl ester of 2,4-D • 650 mL/ha of a 600 g/L LV ester of 2,4-D • 750 mL/ha of a 625 g/L amine of 2,4-D Activity of this mix will be improved with the addition of Supercharge or Hasten at 0.5%.

Always refer to the registered label before use.

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