



# LETS GET READY TO RUMBLE



**\*\* Smackdown Herbicide \*\*** **VS.** **\*\* Broadleaf weeds \*\***

★★★★★ **12 ROUNDS** ★★★★★

★★★★★ **TICKETS ON SALE** ★★★★★

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**£1.50**

**RINGSIDE**  
**£5.00**

**RESERVED**  
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**Bow & Arrow Herbicide**

360 g/L & 510 g/L glyphosate  
450 g/L & 540 g/L glyphosate  
700 g/kg glyphosate

**Various glyphosate products**

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## Smackdown Herbicide

For the Control of Marshmallow and Annual Nettles in Grass Pastures, Rough Grass and Turf Areas; Improvement in the Control of Marshmallow and certain other Broadleaf Weeds, in Commercial, Industrial and Public Service Areas, and around Agricultural Buildings and Yards, in Tank Mixtures with Knockdown Herbicides; Addition to Selective Herbicides

### Technical Brief

<b>Active Ingredients:</b>	240 g/L carfentrazone-ethyl
<b>Chemical Family:</b>	triazolinones
<b>Mode of Action Group:</b>	G- Inhibitors of protoporphyrinogen oxidase (PPOs)
<b>Formulation:</b>	Emulsifiable Concentrate (EC)
<b>Mode of Action:</b>	Contact, absorbed by foliage with limited translocation. Cell membrane disruption - PPO inhibitor.
<b>Behaviour in Plants:</b>	Smackdown Herbicide is a non-residual, contact herbicide that is readily absorbed by green leaves and stems of broadleaf plants, with no translocation within the plant to roots or to other, unsprayed leaves. When used at the label rates, Smackdown Herbicide has no residual activity from herbicide that falls onto soil. The active constituent in Smackdown Herbicide (carfentrazone-ethyl) is a unique herbicidal molecule that interacts with the plant's photosynthetic system to form highly active compounds. These compounds rupture the plant cell membranes, resulting in the cell contents leaking out which causes rapid cell death. Because this mode of action is connected with photosynthesis, sunlight is essential for expression of herbicidal activity. Smackdown Herbicide is not translocated from where spray lands on susceptible green leaf and stem tissue. Broadleaf species are most sensitive, while grasses are usually unaffected.

### Benefits

#### when mixed with Bow & Arrow Herbicide

- Excellent tank mix partner with selective broadleaf herbicide Bow & Arrow Herbicide.
- Improves effectiveness against difficult to kill broadleaf weeds.

#### when mixed with Knockdown Herbicides

- Excellent tank mix partner with certain knockdown herbicides (i.e. glyphosate and paraquat based herbicides).
- Smackdown Herbicide shows robust and consistent control of hard-to-kill broadleaf weeds. Smackdown Herbicide has excellent compatibility with glyphosate and paraquat based herbicides for broad spectrum weed control.
- Improves effectiveness against difficult to kill broadleaf weeds.
- When used in combination with knockdown herbicides, Smackdown Herbicide significantly increases brownout and improves control of hard to kill weeds such as Marshmallow, Capeweed, Paterson's curse and Wild radish.

### How to get the most out of your application

Smackdown Herbicide has a rapid rainfast period of only one hour. However, when tank mixed with another herbicide, observe the rainfast period for the second other herbicide as well.

Smackdown Herbicide is a contact herbicide, so ensure that the recommended water volume is applied to give thorough coverage of leaves and stems for optimum control.

Use good quality water, preferably in the pH range of 5 – 7.

Target smaller, young weeds which are usually more susceptible than older, larger weeds. Older, hardened leaves are slower to respond to Smackdown Herbicide as a result of reduced enzyme activity.

## Directions for Use

### Smackdown Herbicide Mixtures with Bow & Arrow® Herbicide to Assist Weed Control in Established Turf

Situation	Weeds Controlled	Rate/ Timing	Critical Comments
Turf Common Couch, Hybrid Couch, Kikuyu, Buffalo, Qld Blue Couch	Marshmallow ( <i>Malva parviflora</i> )  Annual (stinging) nettles ( <i>Urtica urens</i> )  plus to enhance the weeds controlled (and to broaden weed control spectrum) by Bow & Arrow Herbicide	25 - 75 mL/ha plus recommended label rate of Bow & Arrow Herbicide  Apply to seedlings at 2 - 10 leaf stage	To improve the control of large Marshmallow and Annual nettles (and to broaden weed control spectrum), Smackdown Herbicide should be tank mixed with Bow & Arrow Herbicide. The use of Smackdown Herbicide with Bow & Arrow Herbicide will increase the speed at which the treated weeds develop symptoms (compared to results achieved without Smackdown Herbicide) and hasten weed death.  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 Smackdown Herbicide rates only (sprayed singularly) may only provide suppression of Marshmallow which is why a tank mix as directed is required in order to improve the control of Marshmallow.
	If transient discolouration occurs when using Bow & Arrow Herbicide on Kikuyu, Carpet grass, Queensland Blue Couch or Buffalo then the use of Smackdown Herbicide with Bow & Arrow Herbicide may worsen the discolouration experienced. It is recommended that small areas be tested for turf safety before large-scale application occurs.		
For this mixture always add non-ionic surfactant (1000 g/L – non-buffering type) such as Non-Ionic 1000 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.			

### Smackdown Herbicide Use in Grass Pastures and Rough Grass / Turf Areas

Situation	Weeds Controlled	Time of Application	Rate	Critical Comments
Grass pastures; Rough grass / turf areas	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 Hasten® 0.5% v/v  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 Herbicide should be tank mixed with one of the following: <ul style="list-style-type: none"> <li>• 500 mL/ha of an 800 g/L ethyl ester of 2,4-D</li> <li>• 650 mL/ha of a 600 g/L LV ester of 2,4-D</li> <li>• 750 mL/ha of a 625 g/L amine of 2,4-D</li> </ul> Activity of this mix will be improved with the addition of Hasten® at 0.5% v/v.

### Smackdown Herbicide Use with Knockdown Herbicides

Situation	Weeds Controlled	Time of Application	Rate	Critical Comments
Prior to sowing winter and summer broadacre crops and starting a fallow.  To assist in weed control in Commercial, Industrial and Public Service areas, around agricultural buildings and yards.	Australian Crassula/ Stonecrop ( <i>Crassula spp.</i> ),  Capeweed ( <i>Arctotheca calendula</i> ),  Chickweed ( <i>Stellaria media</i> ),  Common Storksbill (max. 4 leaves) ( <i>Erodium cicutarium</i> ),  Doublegee / Spiny Emex / Three Cornered Jack ( <i>Emex australis</i> ),  Marshmallow ( <i>Malva parviflora</i> ),  Paterson's curse ( <i>Echium plantagineum</i> ),  Sub. Clover ( <i>Trifolium subterraneum</i> ),  Wild radish ( <i>Raphanus raphanistrum</i> )  Refer also to the product label for the knockdown herbicide used. 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. Select from within this range to suit the weed-stage, weed-density, conditions (etc.) of your situation.	Apply as a tank mix with;  Gladiator®, Roundup PowerMAX® or other glyphosate products;  Spray.Seed® , Shirquat®, Nuquat® or other paraquat products	25 - 75 mL/ha plus recommended label rates of knockdown herbicides  <b>Spot spray</b>  10 mL/100 L plus recommended label spot spray rates of knockdown herbicides	Addition of Smackdown Herbicide 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.  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.  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.  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 Herbicide or may re-grow following treatment although plants did not appear very stressed at application.  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 Hasten at 0.5% v/v may be beneficial when applying Smackdown Herbicide with a glyphosate herbicide.  When using Smackdown Herbicide as a spot spray, apply in sufficient water (minimum 500 L/ha) to thoroughly wet all weed foliage to the point of run-off.  Addition of standard rates of a non-ionic surfactant may improve weed control.

Note: The above tables represents only a modified extract from the full registered label. Always read the full product label before use.

## Restraints

DO NOT use on golf greens or bowling greens.

DO NOT tank mix with any type of fertiliser.

## Spray Drift Restraints

DO NOT apply during surface temperature inversion conditions at the application site.

### Additional Spray Drift Restraints

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour at the application site, when mixed with Bow & Arrow Herbicide.

## Application

Smackdown Herbicide is an emulsifiable concentrate formulation and is to be mixed with water and applied as per the labelled Directions for Use.

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

Smackdown Herbicide can be used in a variety of ways:

- To improve the control of large Marshmallow and Annual nettles (and to broaden weed control spectrum), Smackdown Herbicide should be tank mixed with Bow & Arrow Herbicide.
- Can be added to knockdown herbicides to improve the control of certain broadleaf weeds as listed in Directions for Use in commercial, industrial and public service areas, around agricultural buildings, yards and other farm situations.
- Smackdown Herbicide can be mixed with 2,4-D herbicides (as listed in Critical Comments) for the control of Marshmallow and Annual nettle in grass pastures, rough grass and turf areas.

## Symptoms

Smackdown Herbicide is rapidly absorbed through the foliage of plants. Within a few hours following application, the foliage of susceptible weeds show signs of desiccation, and in subsequent days necrosis and death of the plant.

Extremes in environmental conditions; e.g. temperature and moisture, soil conditions and cultural practices may affect the activity of Smackdown Herbicide. Under warm moist conditions, herbicide symptoms may be accelerated. While under very dry conditions, the expression of herbicidal symptoms is delayed, and weeds hardened off by drought are less susceptible to Smackdown Herbicide.

## Packaging

Pack size: 1 L



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