

# Brown Out 250

Similar to: *Spray Seed*<sup>®</sup>

<b>Active constituent</b>	Paraquat dichloride 135 g/L and Diquat dibromide 115 g/L	<b>Formulation</b> SL	
<b>Typical situations</b>	Pre-sowing, pre-emergent broadacre crops, fallow, pasture, horticulture and other.		
<b>Chemical group</b>	L		
<b>Mode of action</b>	Foliar uptake, poor translocation—rapidly desiccates by disrupting photosynthesis and destroying cells.		
<b>Typical pack size</b>	20L, 110L, 1000L		
<b>Poison schedule 7</b>	Dangerous goods class 6.1	<b>UN</b> 3016 <b>Packing code</b> III	
<b>Withholding period</b>	<b>Harvest</b> Do not harvest cotton earlier than 7 days post application. <b>Grazing</b> Do not graze or cut for hay for 1 day (7 days for horses). Remove stock 3 days prior slaughter.		
<b>Plant back</b>	N/A		
<b>Application method</b>	Boom spray 50–200L/ha.	<b>Rain fastness</b> 1 hr	
<b>Efficacy</b>	High water rates optimise efficacy and good coverage is essential. Rapid desiccation can reduce uptake, therefore low light or late afternoon applications can improve efficacy.		
<b>Adjuvants</b>	Wetter is required on hard to wet weeds (e.g. silver grass), and at high water rates.		
<b>Compatibility</b>	Most soil active herbicides, Chlorsulfuron, Triasulfuron, Atrazine, Simazine, Diuron, Trifluralin, Metsulfuron-methyl, Tri-Allate, Pendimethalin, Dicamba, 2,4-D Amine and Ester, MCPA Amine and Ester, Oxyfluorfen, Oryzalin, Imazethapyr, Paraquat, Diquat, Clopyralid.		
<b>Incompatibility</b>	Copper, zinc and manganese sulphates, and translocation herbicides (antagonistic).		
<b>Water quality</b>	Muddy water reduces efficacy.		
<b>Time to effects and symptoms</b>	Within hours—spotting on leaves. 2–4 days—chlorosis at growing point and bleaching of leaves.		
<b>4F Broadacre registrations</b>	Canola, chickpeas, wheat, barley, oats, triticale, field peas, lupins, pasture & other (extract listed).		
<b>4F Other registrations</b>	Horticulture, rights of way and other (see label).		
<b>Similar product registrations</b>	As above.		
<b>Situation</b>	<b>Target Weed/s</b>	<b>Rate/ha</b>	<b>Comments</b>
Immediately before autumn break	2–3-leaf weeds (various)	600–800ml	Wait 30 minutes for cultivation, but no longer than 7 days. If weed infestation is thick wait 3–5 days prior to sowing. Can be done post-sowing, must be 3 days before crop emergence.
	4 leaf weeds (various)	800ml–1.6L	
	4+ leaf weeds (various)	1.6–2.4L	
<b>Spray top/ pasture</b>	Seed set control (various)	800ml–1.5L	–

## Comments

- **Extremely Toxic**—Utilise all safety procedures.
- Non-selective herbicide—will affect all plants.
- Safe in soil, rapidly bound by organic matter and clay, not prone to leaching and is broken down by microbes.
- Brown Out 250 is less susceptible to resistance than Glyphosate, and is useful as a double knock weed control component. Use Glyphosate at label rates followed by Brown Out 250 at label rates at least 2 days later.