



An Agricultural
Sciences Company

Aurora® 40 WG

Herbicide

A water dispersible granule herbicide for post-emergent control of broadleaved weeds in wheat and barley in the Western, Southern and Eastern Cape and as directed in orchards, vineyards and other crops as listed.

AURORA® 40 WG HERBICIDE AT A GLANCE

Registration No.	L6794, Act No 36 of 1947
Active ingredient	Carfentrazone – ethyl (Triazolinone) 400g / kg
Chemical class	Herbicide Group 14
Mode of Action	Inhibition of protoporphyrinogen oxidase (PPO)
Crops	Wheat, barley, orchard and vineyard (perennial) crops
Target weeds	Control of broadleaf weeds
Use rate by application	Depends on crop planted (see label)

HOW DOES AURORA® 40 WG WORK?

Aurora® 40 WG 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, **Aurora® 40 WG** has no residual activity from herbicide that falls onto soil.

The active constituent in **Aurora® 40 WG** (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.

Aurora® 40 WG is not translocated from where spray lands on susceptible green leaf and stem tissue. Broadleaf species are most sensitive, while grasses are usually unaffected.

OPTIMISE PERFORMANCE OF AURORA® 40 WG

- Climatic conditions that favour good steady weed or plant growth and hence optimum enzyme activity within the plant cells also favour the activity of **Aurora® 40 WG**. Conversely, applying **Aurora® 40 WG** to plants that are not actively growing due to cold or heat stress or too little or too much moisture can lead to a reduction in control.
- If plants have been moisture stressed, delay application until after rainfall or irrigation and ensure weeds have resumed steady growth. Weeds don't have to be obviously wilting to be under dry stress which can limit control by **Aurora® 40 WG**.
- **Aurora® 40 WG** 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.
- **Aurora® 40 WG** 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. Cold water will not affect the performance of **Aurora® 40 WG**.
- Target smaller, young weeds which are usually more susceptible than older, larger weeds. Older, hardened leaves are slower to respond to **Aurora® 40 WG** as a result of reduced enzyme activity.

**USE PLANT PROTECTION PRODUCTS SAFELY AND WITH RESPONSIBLE CARE.
PLEASE ALWAYS FOLLOW THE LABEL WHEN APPLYING PLANT PROTECTION PRODUCTS.**



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WHEAT AND BARLEY

CROPS	DOSAGE/HA	REMARKS
Wheat (<i>Triticum aestivum</i>)	25 g Aurora® 40 WG + 500 ml MCPA 400 SL	Post-emergence spray when wheat and barley are between stages 7 and 13 according to the list of growth stages of the ARC Small Grain Institute, Bethlehem.
Barley (<i>Hordeum vulgare</i>)	or 25 g Aurora® 40 WG + 500 ml MCPA 400 SL + 3.5 g Brush-Off® WG or 25 g Aurora® 40 WG + 500 ml MCPA 400 SL + 15 g Glean® 75 DF	Application should not be later than 6 weeks after weed emergence. Apply to barley in the 5 to 6 leaf stage.

Important note: Weeds germinating after the application of **Aurora® 40 WG** + MCPA 400 SL tank mixture will not be controlled.

WEEDS CONTROLLED

The following weed species are normally controlled by **Aurora® 40 WG** + MCPA 400 SL, or **Aurora® 40 WG** + MCPA 400 SL + Brush-Off® WG or **Aurora® 40 WG** + MCPA 400 SL + Glean® 75 DF used at the recommended rate.

- Pimpernel (*Anagalis arvensis*)
- Spiny Emex (*Emex australis*)
- Musk Heron's Bill (*Erodium moschatum*)
- Fumitory (*Fumaria muralis*)
- Small cleaver (*Galium spurium*)
- Small mallow (*Malva parviflora*)
- Small stinkweed (*Pentzia suffruticosa*)
- Four-leaved all seed (*Polycarpon tetraphyllum*)
- Wild radish (*Raphanus raphanistrum*)



Small cleaver
(*Galium spurium*)



Pimpernel
(*Anagalis arvensis*)



Wild radish
(*Raphanus raphanistrum*)

ORCHARD AND VINEYARD (PERENNIAL) CROPS

CROPS	DOSAGE/HA	REMARKS
Deciduous fruit (apples, pears, peaches, plums, nectarines), vines (table and wine grapes), citrus, coffee, olives, macadamia nuts, pecan nuts, avocado, mango, banana, papaya, guava, litchi, kiwi fruit, almond nuts, granadilla, hops, Aloe, tea, quince	25 g Aurora® 40 WG + 3 l Roundup®/Mamba® 360 SL / Mamba® Max 480 SL + surfactant (the addition of a suitable surfactant (Penetrex 0.5% or NPX Humectant 0.25%) will enhance the cosmetic effect and rapidity of action)	Apply as a directed interrow spray for the control of difficult weeds such as <i>Malva parviflora</i> , <i>Conyza bonariensis</i> , <i>Urtica dioica</i> when actively growing (ideal stage when weeds are 10 – 20 cm in height). Shield young vines/trees/bushes with immature bark during application or use a covered sprayer. Ensure that contact is avoided on leaves, fruit and bark. Follow directions on the Roundup®/Mamba®/Mamba® Max labels.

FOR MORE INFORMATION

Put this powerful tool to work for you. Contact your local crop protection retailer, or FMC representative to learn how you can get more consistent control with **Aurora® 40 WG** herbicide control.

For more information please contact:

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Always read and follow the label directions and precautions for use. Aurora® 40 WG contains Carfentrazone – ethyl (Triazolinone) Reg. No. L6794 Act No. 36 of 1947, caution. Aurora®, Glean® and Brush-Off® are trademarks of FMC Corporation or an affiliate.

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