



An Agricultural
Sciences Company

Marshal® 48 EC

insect control

MARSHAL® 48 EC INSECT CONTROL AT A GLANCE

Registration No.	L3314
Active ingredient	Carbosulfan (Carbamate) 480 g/l
IRAC Group	1A
Mode of Action	Conversion to Carbofuran which is itself a Cholinesterase inhibitor and acts as a systemic insecticide with contact and stomach action.

RESISTANCE MANAGEMENT

For resistance management **MARSHAL® 48 EC** is a group code 1A insecticide/nematicide. Any insect population may contain individuals naturally resistant to **MARSHAL® 48 EC** and other group code 1A insecticides.

The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly.

These resistant insects may not be controlled by **MARSHAL® 48 EC** or any other group code 1A insecticide.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticide from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
- Integrate the control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.



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



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CROPS AND PESTS CONTROLLED

Refer to label for application rates and time of application

CROPS	PESTS CONTROLLED
Maize (Preventative treatment)	Nematodes, <i>Protostrophus</i> (ground weevils), Leafhopper (Vector of Streak Virus Disease), False wire worms, Black maize beetle and Stalk borer
Maize (Corrective control)	<i>Protostrophus</i> (ground weevils)
Maize, Sorghum, Sweetcorn (Early corrective treatment)	Maize stalkborer (<i>Busseola fusca</i>), Sorghum stalk borer (<i>Chilo partellus</i>)
Cotton (Control)	Cotton aphid (<i>Aphis gossypii</i>)
Grapevines (Control)	Budmite (<i>Colomerus vitis</i>)
Onions (Control)	Thrips (<i>Thrips tabaci</i>)



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 **MARSHAL® 48 EC** insect control.

FMC Chemicals (Pty) Ltd

Company Registration Number:
1988/001451/07

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MARSHAL® 48 EC Reg. No. L3314, Act No. 36 of 1947, contains Carbosulfan (Carbamate) (480 g/L). DANGER, Toxic if swallowed or if inhaled, May be fatal if swallowed and enters airways, May cause an allergic skin reaction, Causes serious eye irritation, May cause respiratory irritation, May cause drowsiness or dizziness, Suspected of causing cancer, Causes damage to organs, Causes damage to organs through prolonged or repeated exposure, Very toxic to aquatic life with long lasting effects. Physical Hazards: Flammable liquid and vapor

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