

Power-Up[®]



ADJUVANT

Reg. No. L6463 Act No. 36 of 1947

Reg. No. N-AR 2217 Act No. 36 of 1947

**READ LABEL BEFORE USE.
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.**

Power-Up[®] is a liquid ammonium sulphate-based adjuvant that will reduce alkaline water pH, complex certain antagonistic ions in carrier water and enhance the activity and compatibility of foliar applied glyphosate herbicides.



WARNING

ACTIVE INGREDIENT

Ammonium Sulfate
Acidifying system
Humectant
Wetter / Spreader
Contains a defoamer

Total active ingredients: 562 g/ℓ

HAZARD STATEMENTS:

Causes skin irritation.

PRECAUTIONARY STATEMENTS:

Wash affected area thoroughly after handling.
If skin irritation occurs: Get medical help.

Emergency contact details
Office Hour Poisoning Helpline
Rolfes Agri (Pty) Ltd.
Tel: +27 (12) 803 0145

Registration Holder: Rolfes Agri (Pty) Ltd.
(Reg. No. 1998/013411/07) • 288 Mundt Street, Walitoo, 0184,
Gauteng, RSA. • Tel: (012) 803-0145

Rolfes
Agri

Spill Response and Transport incidents
Spill Tech, Oil and chemical pollution control
Tel: +27 (86) 100 0366 / +27 (83) 253 6618
www.spilltech.co.za



LIFT HERE

Shake well before use • Store at room temperature
Keep out of direct sunlight • Keep container closed when not in use

WARNINGS

- Adhere to all warnings that apply to the product or products with which **POWER-UP®** is to be used.
- Observe caution when using **POWER-UP®** with any pesticide other than glyphosate.
- **DO NOT** use **POWER-UP®** with herbicides that require an alkaline spray solution (pH > 7).
- Re-entry: Adhere to the re-entry interval and requirements as indicated on the herbicide label.

DISCLAIMER

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest or disease against the pesticide used as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animals or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read carefully and follow all instructions.
- Wash affected area thoroughly after handling.
- Wear face shield and safety goggles when handling this product.
- IF ON SKIN: Wash with soap and plenty of water.
- Specific treatment (see first aid on this label).
- If skin irritation occurs: Get medical help.
- Take off contaminated clothing and wash it before reuse.

PRODUCT PROPERTIES

- **POWER-UP®** contains an organic acidifying system that when applied correctly will acidify the majority of spray solutions to a pH of between 4 - 6 depending on the initial water quality.
- **POWER-UP®** contains an electrolyte tolerant wetting/penetrating agent to improve the wetting, spreading and contact of the remedy with plant foliage.
- **POWER-UP®** increases the rate of uptake and transport of the herbicides in the plant.
- **POWER-UP®** helps prevent alkaline hydrolysis of pH sensitive herbicides.

FIRST AID

General advice

The symptoms resulting from direct exposure to the product could appear a while after exposure. If there is persistent discomfort, seek medical attention. Provide this SDS to medical personnel for treatment. Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm, and covered up. First Aid personnel should pay attention to their own safety.

Eye contact

Flush eyes with water as a precaution.

Skin contact

Remove all contaminated clothing and shoes. Wash contaminated clothing before re-use. Rinse the skin immediately with plenty of water.

Inhalation

Remove the affected victim from exposure to an area with fresh air as a precaution. If not breathing, administer artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain immediate medical attention.

Ingestion

If exposed or concerned, get medical advice.

USE RESTRICTIONS

- **POWER-UP®** should not be used with any herbicide not listed on this label as it may improve the efficacy of certain herbicides to such an extent that the mixture may lose its selectivity and cause damage to the crop.
- Test the mixture on a small scale before applying it on a large scale.

DIRECTIONS FOR USE: Use only as directed.

Compatibility: **POWER-UP®** is compatible with Muscle-Up® K 500 SL, Muscle-Up® K 500 SG, Strike-Down, Roundup®, Roundup® PowerMax, Roundup® Turbo, and all other glyphosate products.

MIXING INSTRUCTIONS:

- Fill the spray tank half with clean water. Add **POWER-UP®** to the spray tank while agitating.
- Add the herbicide and then the remainder of the water while agitating.
- In the event of tank mixes, add **POWER-UP®** first. Always add the herbicide last.
- **DO NOT** add any other adjuvants or surfactants to the spray tank mix.
- Maintain adequate agitation during application.
- Spray mixture should not be left in the spray tank for a long period of time.
- Spray equipment should be rinsed thoroughly after use of **POWER-UP®** to remove all ammonium sulphate residues.

APPLICATION TABLE RECOMMENDATION:

	WATER QUALITY (EC - ELECTRICAL CONDUCTIVITY*) Before addition of POWER-UP®			POWER-UP® DOSAGE RATE per 100 liters water
	Micro Siemens per cm (µS/cm)	Milli Siemens per cm (mS/cm)	Milli Siemens per m (mS/m)	
Good	0 - 500	0 to 0,5	0 to 50	1 ℓ (1%)
Average	500 to 1000	0,5 to 1,0	50 to 100	1.5 ℓ (1.5%)
Poor	> 1000	> 1,0	> 100	2 ℓ (2%)

NOTE:

If a water analysis is available that indicates the levels of calcium (Ca²⁺), magnesium (Mg²⁺), sodium (Na⁺) and potassium (K⁺) / or EC, your Rolfes Agri representative can determine the precise amount of product to be used. This calculated amount may be outside the 0.25 to 2 % rate range, depending on the water quality of the spray water.

*EC -Electrical Conductivity is measure of the total soluble salts in solution.

MUSCLE-UP® K 500 SL, Glyphosate 500 g/ℓ, Reg. No. L8698, Act No. 36 of 1947.

MUSCLE-UP® 500 SG, Glyphosate 500 g/kg, Reg. No. L7641, Act No. 36 of 1947.

STRIKE-DOWN, Glyphosate 350 g/kg & MCPA 133 g/kg, Reg No L9007, Act No. 36 of 1947

ROUNDUP®, Glyphosate 360 g/ℓ, Reg. No. L0407, Act No. 36 of 1947. Registered by Bayer (Pty) Ltd.

ROUNDUP® POWERMAX, Glyphosate 540 g/L, Reg L7769, Act No. 36 of 1947.

Registered by Bayer (Pty) Ltd.

ROUNDUP® TURBO, Glyphosate 450 g/ℓ, Reg L7166 Act No. 36 of 1947. Registered by Bayer (Pty) Ltd.

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