

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

Adjuvant



# AMS-SUPER

Reg. No. L9758 Act No. 36 of 1947

4: 14/11/2023 – Aug2024

An emulsion water conditioning agent that will reduce alkaline water pH, complex certain antagonistic ions in carrier water, overcome the antagonism of phenoxy herbicides against **Glyphosate** and enhance the activity and compatibility of **Glyphosate**.

## ACTIVE INGREDIENT

ammonium sulphate

500 g/l

CLASS

B

ADJUVANT

No GHS elements flagged according to calculation.



**villa** 

UN Number: Not regulated

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

65 Botes Road, Glen Marais, Kempton Park, 1619

Tel. (011) 396 2233

Website: [www.villacrop.co.za](http://www.villacrop.co.za)

IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:

Griffon Poison Information Centre (National): +27 82 446 8946

Poison Information Helpline (National): +27 861 555 777

24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

**AMS-SUPER**

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**ACTIVE INGREDIENT:**

ammonium sulphate .....500 g/l

Registration holder:

**UNIVERSAL CROP PROTECTION (PTY) LTD.**

Co. Reg. No.1983/008184/07

P.O. Box 801

KEMPTON PARK, 1620

Tel. (011) 396 2233

**WARNINGS**

- Adhere to all label warnings that apply to the product or products with which **AMS-SUPER** is to be used.
- May irritate the eyes and skin.
- Store away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool, dry, well-ventilated place.
- Re-entry: Adhere to the re-entry interval and requirements as indicated on the herbicide label.

**Aerial application:**

Notify all the inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings.

**Although AMS-SUPER 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 soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weeds against the herbicide concerned, 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 animal 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 the registration. Consult the supplier in the event of any uncertainty.**

**PRECAUTIONS**

- Avoid inhalation of the spray mist.
- Wear protective clothing: overalls, rubber boots and gloves, when handling the product.
- Wash thoroughly with soap and water after use and after accidental skin contact.
- In the case of eye contact flush eyes with copious amounts of water for at least 15 minutes.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Thoroughly clean the applicator after use and dispose of wash water in a way that will not contaminate food, grazing, boreholes, rivers and dams.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

**FIRST AID TREATMENT**

- Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. **Seek medical attention if you feel unwell after inhalation.**
- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Obtain medical attention if irritation persists.**
- **Eyes:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention if irritation persists.**
- **Ingestion:** Seek medical attention immediately. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

### **PRODUCT PROPERTIES**

- **Glyphosate** requires the pH of spray solution to be slightly acidic (normally pH 4.5 to 5.5). **Glyphosate** can also be antagonized by ions dissolved in carrier water. **AMS-SUPER** in combination with **Glyphosate** will decrease the pH of the spray solution and will complex antagonistic ions such as calcium, magnesium, sodium and potassium. The spray solution pH will, however, not be decreased to the extent that incompatibility with phenoxy herbicides is experienced.
- Additional acidification with other buffers and/or acidifiers is not recommended.
- The use of **AMS-SUPER** will increase **Glyphosate** efficacy by improving its uptake and may aid compatibility of **Glyphosate** with certain other herbicides.
- **AMS-SUPER** overcomes the antagonism of phenoxy herbicides (e.g., **2,4-D AMINE 480 SL** (L 4505 / W 130459 / N-AR 1096), **2,4 D ESTER 500 EC** (L 5792) and **MCPA 400 SL** (L 5793 / N-AR 1092 / W1301410) on **Glyphosate**.

### **USE RESTRICTIONS**

- **AMS-SUPER** 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 it may cause damage to the crop.
- Take all necessary precautions associated with aerial spraying of herbicides especially with regard to control of drift.
- Test the mixture on a small scale before applying it on a large scale.

**DIRECTIONS FOR USE: Use only as directed.**

### **Adjuvant Classification**

Active	Class	Category
Ammonium sulphate	B	Salt adjuvant

### **Compatibility:**

- **AMS-SUPER** can be used with **ROUNDUP®** (L 0407), **ROUNDUP® MAX** (L 6790), **ROUNDUP® POWERMAX** (L 7769), **ROUNDUP® TURBO** (L 7166), **ROUNDUP® WEATHERMAX** (L 8065), **MAMBA™ 360 SL** (L 4817), **MAMBA™ MAX 480 SL** (L 7714), **MAMBA™ DMA** (L 8388), **TOUCHDOWN® FORTE HI-TECH** (L 7305), **Mallet 100 SL/Imazethapyr 100 SL**, **Panga 360 SL/Slash 710 SG/Lynch 710 SG**, **SERVIAN®** (L 5617), **Scat® 360 SL/Slash 360 SL/Glygran 360 SL/Lynch 360 SL**, **Slash Turbo 450 SL/Panga Turbo 450 SL**, **Slash Plus 540 SL/Panga Plus 540 SL/Lynch Plus 540 SL**, **BRONS®** (L 7483) and **Villa 51/Wen 51**.
- Consult the labels of the abovementioned products for full particulars.

### **Mixing Instructions:**

- Half fill the spray tank with clean water.
- Add the required amount of **AMS-SUPER** followed by the herbicide and then the remainder of the water while stirring.
- In the event of tank mixes, add **AMS-SUPER** first, then the complementary herbicide followed by the correct amount of the foliar active herbicide and then the remaining water with continual agitation.
- Should a wetter/spreader be required, add this last and only use **Villa 51** or an approved Villa Crop Protection surfactant.
- Maintain adequate agitation during application and the prepared mixture must not be left in the spray tank for any length of time.

- **AMS-SUPER** is corrosive; therefore the sprayer, tank and system should be rinsed thoroughly after the use of **AMS-SUPER**, to remove all ammonium sulphate residues.

#### Application Instructions:

##### Ground application:

**AMS-SUPER** can be used with any correctly calibrated spray equipment as recommended on the herbicide label.

##### Aerial application:

Take all necessary precautions associated with aerial spraying of herbicides especially with regard to control of drift. Follow the label instructions of the herbicide being used with **AMS-SUPER**. If in any doubt, consult with the supplier and aerial crop sprayer.

#### APPLICATION RATES

##### HERBICIDE GROUPS

<i>Herbicide Groups</i>	<i>Active ingredients</i>	<i>Trade name examples</i>
<b>REMARKS:</b> Contact a Villa Technical representative for further guidance on rate selection for specific situations. Adhere to the “Mixing Instructions”, “DIRECTIONS FOR USE” and “DOSAGE RATES” of the products, as well as the approved tank mixtures with which <b>AMS-SUPER</b> is to be used.		
Glycines (HRAC Group 9)	Glyphosate	Roundup <sup>®</sup> , Roundup <sup>®</sup> Max, Roundup <sup>®</sup> PowerMax, Roundup <sup>®</sup> Turbo, Roundup <sup>®</sup> WeatherMax, Mamba <sup>™</sup> 360 SL, Mamba <sup>™</sup> 480 SL Max, MAMBA <sup>™</sup> DMA, TOUCHDOWN FORTE <sup>®</sup> HI-TECH, Scat <sup>®</sup> 360 SL, Slash 360 SL, Glygran 360 SL, Lynch 360 SL, Slash Turbo 450 SL, Panga Turbo 450 SL, Slash Plus 540 SL, Panga Plus 540 SL, Lynch Plus 540 SL, Panga 360 SL, Slash 710 SG, Lynch 710 SG
Imidazolinones (HRAC Group 2)	Imazethapyr	Mallet 100 SL, Imazethapyr 100 SL
Sulfonylurea (HRAC group 2)	Halosulfuron	Servian <sup>®</sup>

- If possible, test the Electrical Conductivity or have an analysis of the spray water done. The precise rate of **AMS-SUPER** can then be determined by your Villa Crop Protection representative. The analysis report must contain values for calcium, magnesium, sodium and potassium content **OR** an Electrical Conductivity measurement when a full analysis is not available. If this is not possible, use the dosage rate table as a guideline.
- In cases where a water analysis or an Electrical Conductivity measurement is not available, add 0.5 to 2.0 litres **AMS-SUPER** to 100 litres clean water (preferably not murky) to obtain a 0.5 to 2.0 % spray solution. If in any doubt about the spray water quality/Electrical Conductivity, use the higher recommended **AMS-SUPER** rate.

#### **DOSAGE RATE OF AMS-SUPER IF A WATER ANALYSIS IS NOT AVAILABLE OR IF A VILLA REPRESENTATIVE HAS NOT MADE A PRECISE CALCULATION**

<i>Electrical Conductivity (EC)</i>			<i>AMS-SUPER DOSAGE RATE</i>	
<i>Milli Siemens per m (mS/m)</i>	<i>Milli Siemens per cm (mS/cm)</i>	<i>Micro Siemens per cm (µS/cm)</i>	<i>%</i>	<i>Litres per 100 litres water</i>
0 to 100	0 to 1.0	0 to 1000	0.5 %	0.5 litres per 100 litres water
101 to 200	1.1 to 2.0	1001 to 2000	1.0 %	1.0 litre per 100 litres water
> 200	> 2.0	> 2000	2.0 %	2.0 litres per 100 litres water

**NOTE**

If a water analysis is available that indicates the levels of calcium (Ca<sup>2+</sup>), magnesium (Mg<sup>2+</sup>), sodium (Na<sup>+</sup>) and potassium (K<sup>+</sup>) OR Electrical Conductivity, your **Villa Crop Protection** representative can determine the precise amount of product to be used. This calculated amount may be outside the 0.5 to 2 % rate range, depending on the quality of spray water.

The following product mentioned in this label may be replaced with an equivalent product:

- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315).
- **SCAT® 360 SL** (L 5716 / W 130453) = **SLASH 360 SL** (L 7811 / N-AR 1087) = **PANGA 360 SL** (L 7812) = **LYNCH 360 SL** (L 8128),
- **MALLET 100 SL** (L 8049 / W 1301285) = **IMAZETHAPYR 100 SL** (L 8051),
- **SLASH 710 SG** (L 8450 / N-AR 2190 / W 130058) = **GLYGRAN 710 SG** (L 8449) = **LYNCH 710 SG** (L8670),
- **SLASH TURBO 450 SL** (L 8505) = **PANGA TURBO 450 SL** (L 8506)
- **SLASH PLUS 540 SL** (L 8819 / W 1301444) = **PANGA PLUS 540 SL** (L 8818) = **LYNCH PLUS 540 SL** (L8816).

**ROUNDUP®, ROUNDUP® MAX, ROUNDUP® TURBO, ROUNDUP® POWERMAX and ROUNDUP® WEATHERMAX** are registered trademarks of **Bayer (Pty) Ltd.**

**MAMBA™ 360 SL, MAMBA™ MAX 480 SL and MAMBA™ DMA** are registered trademarks of **Dow Agrosciences SA (Pty) Ltd.**

**TOUCHDOWN® FORTE HI-TECH, SERVIAN® and BRONS®** are registered trademarks of **Syngenta Group Company.**

**2,4-D AMINE 480 SL, VELOCITY® SUPER, SLASH 360 SL, IMAZETHAPYR 100 SL, SLASH 710 SG, SLASH TURBO 450 SL, VILLA 51, WEN 51 and SLASH PLUS 540 SL** are registered products of **Universal Crop Protection (Pty) Ltd.**

**SCAT® 360 SL** is a registered trademark of **Universal Crop Protection (Pty) Ltd.**

**MCPA 400 SL, 2,4 D ESTER 500 EC, PANGA 360 SL, GLYGRAN 710 SG, PANGA TURBO 450 SL, PANGA PLUS 540 SL and MALLET 100 SL** are registered products of **Villa Crop Protection (Pty) Ltd.**

**VELOCITY® SUPER** is a registered trademark of **Villa Crop Protection (Pty) Ltd.**

**LYNCH 360 SL, LYNCH 710 SG, and LYNCH PLUS 540 SL** are registered products of **CropAssure (Pty) Ltd.**