

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Adjuvant

DIRECT



Reg. No. L 8680 Act No. 36 of 1947

5: 27/7/2022 – Nov2022

A non-ionic adjuvant with spreading and penetrating properties for use with post-emergence agrochemical applications.

SURFACTANT / OIL

ACTIVE INGREDIENTS

polyether-polymethylsiloxane-copolymer
vegetable oil

GROUP

ADJUVANT

300 g/l

650 g/l



WARNING

Hazard Statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Harmful if inhaled.
Causes serious eye irritation.
Causes mild skin irritation.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.



villa



UN Number: 3082

Registration holder: VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07

P.O. Box 10413, Aston Manor, 1630

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

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

DIRECT

Reg. No. L 8680 Act No. 36 of 1947

ACTIVE INGREDIENTS:

polyether-polymethylsiloxane-copolymer 300 g/l
 vegetable oil 650 g/l

Registration holder:

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WARNINGS**Hazard Statements:**

May be harmful if swallowed
May be harmful in contact with skin
Harmful if inhaled
Causes serious eye irritation.
Causes mild skin irritation.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

- Handle with care.
- Keep out of reach of children, uninformed persons and animals.
- Store under lock and key in a cool, dry place away from food and feedstuffs.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **In case of poisoning call a physician and make this label available to him/her.**

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, 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**Precautionary statements:**

Avoid breathing dust, fume, gas, mists, vapours or spray.
Wash hands and face thoroughly after handling. Do not touch eyes.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get medical help.
IF ON SKIN: Get medical help.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: get medical help.
If eye irritation persists: Get medical help.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Consult the label of the product of concern that **DIRECT** is to be used with. All the “**WARNINGS**” of the product that **DIRECT** is to be used with, is applicable and must be followed.
- Read the labels of concern carefully before the products are applied as a tank mixture.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean the applicator before using it for other remedies. Dispose of wash water where it will not contaminate food, grazing, rivers or 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. Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.
- Do not eat, drink or smoke whilst mixing, applying the product or before washing hands and face or change of clothing.
- Avoid contamination of food, feeds, drinking water and eating utensils.

Relevant hazardous components	
Polyether-polymethylsiloxane-co-polymer	300 g/ℓ
Surfactant Emulsifier	< 100 g/ℓ

DIRECTIONS FOR USE: Use only as indicated.

Product Information:

DIRECT is a non-ionic adjuvant based on the organo-modified siloxane technology in combination with a vegetable oil to enhance wetting and spreading on the plant surface.

Application:

- Ensure optimum effect of **DIRECT** by following the “**WARNINGS**” and “**PRECAUTIONS**” carefully.
- Follow the label instructions of the pesticide or plant nutrient carefully.
- Carefully monitor the application in order to ensure effective product application and to determine correct and optimum dosage rates.
- Apply **DIRECT** at 0.05 % to 0.1 % with fungicides, herbicides and insecticides, as indicated in the “**APPLICATION RATES**” table below.

Calculation of adjuvant rates:

$$\frac{\text{Volume of } \mathbf{DIRECT} \text{ (litres)}}{\text{Volume of spray mixture (litres)}} \times 100 = 0.05 \% \text{ OR } 0.1 \%$$

Compatibility:

DIRECT can be used in combination with most agrochemical remedies such as herbicides, insecticides, fungicides as well as foliar nutrients; unless the product label indicates that it should not be used with a non-ionic wetting agent and/or oil. It is advisable to ensure effective mixing of the pesticide with **DIRECT** in a jar test, before a tank mix is applied. Consult the supplier and/or registration holder of **DIRECT** and the pesticide concerned, in the case of uncertainty.

Mixing Instructions:

- Half fill the spray tank with water.
- Add the recommended quantity of product according to label, to spray tank while agitating.
- Then add **DIRECT** and fill the spray tank with water to the required level, while maintaining agitation, to ensure thorough mixing before spraying.
- Maintain agitation during the spraying.

APPLICATION RATES

Product Group & Crop	Active Ingredient	Trade Name Examples	Dosage Rate	Remarks
<u>Fungicides</u>	All Fungicides that recommend the use of a wetter/spreader, non-ionic surfactant or oil adjuvant	-	0.05 % to 0.1 % OR (50 to 100 ml) / 100 ℓ spray mixture OR (5 to 10 ml / 10 ℓ spray mixture) DIRECT	Consult the pesticide label for the full details regarding “ WARNINGS ” and “ DIRECTIONS FOR USE ”. Not yet recommended on fruit crops.
	Triazole/ Benzimidazole combination products	Sparta 375 SC Sparta Plus 375 SC PUNCH® C (L 3626) Aria 188 SC		
	Triazoles	Scope 250 SC		
<u>Insecticides</u>	All Insecticides that recommend the use of a wetter/spreader, non-ionic surfactant or oil adjuvant	-	0.05 % to 0.1 % OR (50 to 100 ml) / 100 ℓ spray mixture OR (5 to 10 ml / 10 ℓ spray mixture) DIRECT	Consult the pesticide label for the full details regarding “ WARNINGS ” and “ DIRECTIONS FOR USE ”. Not yet recommended on fruit crops
<u>Foliar nutrients & Other</u>	All Foliar nutrients that recommend the use of a wetter/spreader, non-ionic surfactant or oil adjuvant	-	0.05 % to 0.1 % OR (50 to 100 ml) / 100 ℓ spray mixture OR (5 to 10 ml / 10 ℓ spray mixture) DIRECT	Consult the pesticide label for the full details regarding “ WARNINGS ” and “ DIRECTIONS FOR USE ”. Not yet recommended on fruit crops.

Product Group & Crop	Active Ingredient	Trade Name Examples	Dosage Rate	Remarks
<u>Herbicides</u>	All Herbicides that recommend the use of a wetter/spreader, non-ionic surfactant or oil adjuvant	-		
	Triazines	TERBUSIEN SUPER 600 SC (L 5435 / N-AR 1110) Terbuweed 600 WDG		Consult the pesticide label for the full details regarding “ WARNINGS ” and “ DIRECTIONS FOR USE ”.
	Paraquat	SKOFFEL® 145 SL (L 4347) SKOFFEL® SUPER 200 SL (L 6328 / W 130059 / N-AR 1097)	0.05 % to 0.1 % OR (50 to 100 ml) / 100 l spray mixture OR (5 to 10 ml / 10 l spray mixture) DIRECT	
	Glyphosate	Scat® 360 SL Panga Turbo 450 SL Panga Plus 540 SL Glygran 710 SG (Glyphosate containing products)		Use DIRECT only when the Villa/Universal Glyphosate rates are less than the minimum percentage recommended on the Glyphosate labels. DIRECT can only be used with Glyphosates in conjunction with Velocity® Super or Velocity® Drymax .
	Sulfonylureas	Halo 750 WDG Nicoron 750 WDG		

The following products mentioned in this label can be replaced with the following equivalent products:

- **ARIA 188 SC** (L 7943) = **DIFENOZIM 188 SC** (L 7924 / W 130444 / N-AR 1341) (**Carbendazim + Difenconazole**),
- **SPARTA 375 SC** (L 8403 / N-AR 1340) = **FLUSILAZIM 375 SC** (L 8400 / W 130493) (**Flusilazole + Carbendazim**),
- **SPARTA PLUS 375 SC** (L 9499) = **FLUSILAZIM EXTRA 375 SC** (L 9500) (**Flusilazole + Carbendazim**),
- **SCOPE 250 EC** (L 7942 / N-AR 1098 / W1301370) = **D-ZOLE 250 EC** (L 7923) (**Difenoconazole**),
- **TERBUWEED 600 WDG** (L 8800) = **TERBUCIDE 600 WDG** (L 8799 / W 1301046) = **TERBUMAIS 600 WDG** (L 8798) (**Terbuthylazine**),
- **SCAT® 360 SL** (L 5716 / W 130453) = **SLASH 360 SL** (L 7811 / N-AR 1087) = **PANGA 360 SL** (L 7812) = **LYNCH 360 SL** (L8128) (**Glyphosate**),
- **PANGA TURBO 450 SL** (L 8506) = **SLASH TURBO 450 SL** (L 8505) = **LYNCH TURBO 450 SL** (L 8754) (**Glyphosate**),
- **PANGA PLUS 540 SL** (L 8818) = **SLASH PLUS 540 SL** (L 8819 / W 1301444) = **LYNCH PLUS 540 SL** (L 8816) (**Glyphosate**),

- **GLYGRAN 710 SG** (L 8449) = **SLASH 710 SG** (L 8450 / W 130058 / N-AR 2190) = **LYNCH 710 SG** (L 8670) (**Glyphosate**),
- **HALO 750 WDG** (L 8283 / N-AR 1337 / W1301403) = **CROWN 750 WDG** (L 8282) (**Halosulfuron**),
- **NICORON 750 WDG** (L 8045 / N-AR 1335) = **NICOSULFURON 750 WDG** (L 8059),
- **VELOCITY® SUPER** (L 9603 / W 130996) = **AMS-SUPER** (L 9758) = **GLYPHO-BOOST** (L 7757) and
- **VELOCITY® DRYMAX** (L 9454 / W 130995 / N-AR 1528) = **AMS-GRANULE** (L 9610).

SPARTA 375 SC, ARIA 187.5 SC, SCOPE 250 EC, SPARTA PLUS 375 SC, TERBUSIEN SUPER 600 WDG, PANGA 360 SL, NICORON 750 WDG, HALO 750 WDG, PANGA TURBO 450 SL, PANGA PLUS 540 SL, PANGA PLUS 540 SL, GLYGRAN 710 SG and TERBUWEED 600 WDG are registered products of **VILLA CROP PROTECTION (PTY) LTD.**

VELOCITY® DRYMAX, VELOCITY® SUPER, AMS-SUPER, GLYPHO-BOOST, AMS-GRANULE, FLUSILAZIM EXTRA 375 SC, FLUSILAZIM 375 SC, DIFENOZIM 187.5 SC, D-ZOLE 250 EC, SLASH 360 SL, CROWN 750 WDG, NICOSULFURON 750 WDG, SLASH TURBO 450 SL, SLASH PLUS 540 SL, SLASH 710 SG and TERBUCIDE 600 WDG are registered products of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

VELOCITY® DRYMAX and **VELOCITY® SUPER** are registered trademarks of **VILLA CROP PROTECTION (PTY) LTD.**

SKOFFEL® 145 SL, SKOFFEL® SUPER 200 SL and **SCAT® 360 SL** are registered trademarks of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

LYNCH 360 SL, TERBUMAIS 600 WDG, LYNCH TURBO 450 SL, LYNCH PLUS 540 SL, SLASH TURBO 450 SL and LYNCH 710 SG are registered products of **CROPASURE (PTY) LTD.**

PUNCH® C is a registered trademark of **DU PONT DE NEMOURS SOUTH AFRICA (PTY) LTD.**