

Astrant

Reg. No.: L 11608 Act/Wet No. 36 of/van 1947



A concentrated Adjuvant for wetting and sticking properties that are use with most spray materials. Improves their wetting and spreading properties on plant foliage and increases fungicidal or insecticidal efficiency.

ACTIVE INGREDIENT

An Alcohol ethoxylate 900 g/ℓ



WARNING

HAZARD STATEMENTS: Flammable liquid and vapour | Harmful if swallowed
Causes serious eye damage | Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Avoid release to the environment | Collect spillage | Dispose of contents/container in accordance with local regulations.

Registration holder: Green Island Investments (Pty) Ltd.

Co. Reg. No.: 2013/043963/07

P.O. Box 1822, Heidelberg 1438, South Africa

Tel: 078 737 9236

24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre: +27 82 446 8946

24 Hr Transport / Spill emergency no:

(Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

Distributed by: Typhoon Plant Protection (Pty) Ltd.

Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein

Corner of the R23 Benoni Road & R550, Nigel Road

Brakpan District, Heidelberg 1438, Gauteng, South Africa

Tel: 078 737 9236

Net Volume:

ℓ

Expiry Date:

Batch No:

Date of Manufacture:

U.N. No. 3082



READ LABEL IN DETAIL BEFORE OPENING THE CONTAINER. FOR FULL PARTICULARS, SEE ENCLOSED LEAFLET.
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



WARNINGS:

HAZARD STATEMENTS:

- Flammable liquid and vapour.
- Harmful if swallowed.
- Causes serious eye damage.
- Harmful to aquatic life with long lasting effects.

Not for use with products with a PHI of 7 days or less.

- Observe all warnings that are applicable to products with which **ASTRANT** will be used.
- Harmful if swallowed.
- Handle with care.
- Severely irritating to eyes and skin.
- **FLAMMABLE** – Keep away from fires, sparks and sources of ignition.
- Store in a cool dry place, away from food, feeds, seed and fertilizers.
- Keep container closed when not in use.
- Keep out of reach of children, uninformed persons and animals.

Although this adjuvant 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, incompatibility with 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 release to the environment. Collect spillage.
- Dispose of contents/container in accordance with local regulations.
- **Do not** inhale spray mist and vapour.
- Avoid contact with skin and eyes.
- Wear protective rubber gloves and a face mask when handling, mixing and applying the product.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- **Do not** eat, drink or smoke while mixing, applying or before washing hands and face or changing clothing.
- Avoid drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Wash application equipment thoroughly after use. Dispose of wash water in a safe manner and **do not** contaminate crops, grazing, rivers, dams and boreholes.
- **TRIPLE RINSE** empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy 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.

Relevant substances:

Substance/Mixture: Mixture Ingredients:

Substance name (IUPAC)	CAS – No.	Concentration % By weight
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	69011-36-5	90%

SYMPTOMS OF HUMAN POISONING:

May cause moderate to severe irritation to the skin. May cause moderate to severe irritation of the eyes. Inhalation causes irritation of the nose, mouth, throat and respiratory tract. Ingestion may cause headache, nausea, vomiting, fatigue and abdominal pains.

FIRST AID TREATMENT:

- Remove patient from source of poisoning and keep him quiet and reassured.
- **Eyes:** Flush eyes with clean water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.
- **Skin:** Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water. **Do not** rub skin. Get medical attention if irritation occurs and persists.
- **Inhalation:** Move to fresh air. If breathing difficulty or irritation occurs and persists, obtain medical attention.
- **Ingestion:** **Do not** induce vomiting. Have the mouth of patient rinsed with water. Give at least 300 ml of water to drink. Get medical attention.

NOTE TO PHYSICIAN:

Antidote is not available. Treat symptomatically and supportively.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

- Add the required quantity of **ASTRANT**.

COMPATIBILITY:

ASTRANT can be used with various active ingredients that requires the addition of a surfactant.

These active ingredients include sulfonylureas e.g. **Halo-Fron 750 WG** (L10152), **ULTRA 50 WP** (L 10453),

Mesotrione e.g. **Meso 480 SC**, (L10449) certain insecticides such as pyrethroid e.g. **CYPER 200 EC** (L 11606),

Paraquat e.g. **PARAQUAT 200 SL** (L10180) and fungicide such as **Strobilurin** e.g. **STER 250 SC** (L10147) any other product that recommends the use of a non-ionic surfactant as specified on the label.

Mixing instructions:

- Half fill the spray tank with clean water.
- Pre-mix the **ASTRANT** with a small amount of water before it is added to the spray tank.
This is particularly relevant when it is applied in cold water.
- Add the required amount of agro-chemical and **ASTRANT** slowly and then the remainder of the water while stirring.
- In the event of tank mixes, strictly adhere to all the recommendations of the tank-mix components.
- Prepared mixture must not be left in the spray tank for any length of time.

GROUND APPLICATION:

ASTRANT can be used with any correctly calibrated spray equipment as recommended on the herbicide/fungicide/insecticide label.

AERIAL APPLICATION:

Take all necessary precautions associated with aerial spraying of herbicides, especially with regard to off-target drift, as the addition of a surfactant normally increases the volume of fine droplets. Follow the label instructions of the herbicide being used with **ASTRANT**. If in any doubt, consult with the supplier and crop sprayer.

APPLICATION RATES

ASTRANT may be used with any spray mixture and can be applied to any crop. Add the required quantity to the spray mixture and agitate thoroughly.

USE	DOSAGE	REMARKS
General use 1. Agricultural use: For general use on most crops	12.5 ml / 100 ℓ water	Also where the target pest/disease is particularly hard to wet.
2. Agricultural use: For use on plants with pronounced waxy leaf surfaces	25 ml / 100 ℓ water	
3. General use in home gardens, lawns and turf	2.0 ml / 10 ℓ water	
Deciduous fruit and Vegetables	12.5 ml / 100 ℓ water	
Vines	12.5 to 25 ml / 100 ℓ water	According to variety and age of foliage.
Weed control Sulfonylureas such as Halosulfuron and Clorimuron e.g. Halo-Fron WG, Ultra 500 WP	50 ml / 100 ℓ water	Refer to the herbicide label for specific surfactant recommendations and crops.
Mesotrione e.g. Meso 480 SC	0.1 %	
Paraquat e.g. Paraquat 200 SL	0.05 to 0.1 %	
Insect control indoxacarb e.g. BLOK 300 WDG	For specific rates on different crops refer to the insecticide label for specific surfactant recommendations.	
Fungicidal control Strobilurin e.g. STER 250 SC DAPPER 325 SC	For specific rates on different crops refer to the insecticide label for specific surfactant recommendations.	

PARAQUAT 200 SL (L10180) is a registered product of **Green Island Investments (Pty) Ltd.**
Halo-Fron WG (L10152) is a registered product of **Green Island Investments (Pty) Ltd.**
ULTRA 50 WP (L 10453) is a registered product of **Green Island Investments (Pty) Ltd.**
MESO 480 SC, (L10449) is a registered product of **Green Island Investments (Pty) Ltd.**
BLOK 300 WDG (L 9954) is a registered product of **Green Island Investments (Pty) Ltd.**
STER 250 SC (L10147) is a registered product of **Green Island Investments (Pty) Ltd.**
DAPPER 325 SC (L11362) is a registered product of **Green Island Investments (Pty) Ltd.**