

VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.

For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

Astra 360 SL

Reg. No.:L8429 Act/Wet No. 36 of/van 1947

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

Triclopyr (Pyridine Compound) / Triklampir (Piridienverbinding).....270 g/l
(as triethylamine salt) / (as tri-etielamiensout)
Clopyralid (Pyridine Compound) / Klopivalied (Piridienverbinding).....90 g/l
(as triethylamine salt) / (as tri-etielamiensout)

Registration holder / Registrasiehouer:

Volcano Agrosience (Pty) Ltd

Co. Reg. No./Mpy. Reg. Nr.: 2000/004551/07

Distributed by:

ARYSTA LifeScience South Africa (Pty) Ltd

Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07

7 Sunbury Office Park, off Douglas Saunders Drive,
La Lucia Ridge, South Africa, 4019

Tel: 031 514 5600

HARMFUL



SKADELIK

WARNINGS:

- Poisonous by swallowing.
- Concentrate may cause severe eye irritation.
- May cause allergic skin reactions.
- Store in a cool, dry place.
- Slightly toxic to aquatic invertebrates.
- Store away from food, feed, seed, and other agricultural chemicals and out of reach of children, uninformed persons and animals.
- In case of poisoning, call a doctor and make this label available.

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 soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of weeds against the remedy 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.

PRECAUTIONS

Note: always consult the supplier or registration holder in the event of any uncertainty with regards to the usage of this product.

- Protect hands and eyes by wearing protective gloves, a face shield or safety glasses while handling the concentrate.

- Avoid breathing fumes or spray mist.
- Wash contaminated clothing daily.
- Wash affected area with soap and water after accidental skin contact.
- Eye contact must be avoided. In case of eye contact, flush eyes for several minutes with clean water.
- Do not eat, drink or smoke whilst applying or mixing or before having washed hands and face and before a change of clothing.
- Prevent spray from drifting onto non-target vegetation, crops, grazing, rivers, dams or any areas not under treatment.
- The application equipment must be cleaned with a 1 % solution (10 ml/990 ml water) of household ammonia before using with other herbicides. Allow the solution to stand in the spray tank for several hours, but preferably overnight. Then rinse at least twice with clean water. This applicator must be used exclusively for the application of herbicides. Dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- Rinse empty container three times with a volume of water equal to a minimum of 10 % of the container volume. Add these rinsings to the contents of the spray tank before destroying the container by perforation and flattening and never re-use for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

USE RESTRICTIONS

To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit or ornamentals or desirable vegetation of any kind. Apply strictly according to label recommendations. Do not contaminate any water body.

SYMPTOMS OF HUMAN POISONING

Although there are no specific signs of poisoning, the concentrate however, may cause severe eye irritation. Prolonged or repeated skin contact must be avoided as it may lead to allergic reactions in some individuals. Ingestion of large amounts may cause gastrointestinal irritation. Once-off exposure to the product vapour is unlikely to be hazardous.

FIRST AID TREATMENT

Eyes:

Flush with clean flowing water for 15 minutes. Seek medical advice.

Skin:

Remove contaminated clothing. Rinse affected area thoroughly with clean running water.

Ingestion:

In case of accidental ingestion, do not induce vomiting. Give 1–2 glasses of water or milk to drink. Do not give anything by mouth to an unconscious person. Seek medical attention.

Inhalation:

Move patient an area well ventilated with fresh air if effects occur. Seek medical advice.

NOTE TO PHYSICIAN

No specific antidote is known. Treatment should therefore be symptomatic. If lavage is performed, suggest endotracheal and/or esophagoscopy control.

DIRECTIONS FOR USE: use only as directed

Compatibility

ASTRA 360 SL is compatible with H&R CROP OIL* or with products recommended by the Volcano representative.

Mixing

Half fill the spray tank with water and add the required quantity of **ASTRA 360 SL** to the contents. When filling the spray tank add H&R CROP OIL at the rate indicated below while maintaining constant agitation.

Foliar application

- **Use only on actively growing plants with a fully developed leaf cover.**
- Apply as a full cover spray to leaves and shoots to the point of run-off.
- Do not apply to foliage still wet from rain or dew.
- Use a knapsack sprayer fitted with a solid cone nozzle spray nozzle (e.g. Spraying Systems TG-1, TG-2, Delavan CE 1 or equivalent) that will ensure even coverage of the target area. A constant pressure of between 200–250 kPa must be maintained.
- Rain 3 hours after application will not affect efficacy provided that the spray has dried on the surface of target plants.
- **Prevent spray from drifting onto non-target vegetation.** Do not exceed a spray height of 20 cm above target area. Discontinue application if wind velocity exceeds 15 km/h (as measured by handheld wind recorder). The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8 °C.

Cut stump treatment

- Preferably, application should take place immediately after felling, but definitely within 15 minutes.
- **ASTRA 360 SL** should not be applied to the stump surface while wet from rain or dew.
- Apply as a coarse spray at low pressure (100 kPa), using a solid cone nozzle tip (e.g. Spraying Systems TG-1, TG-2, Delavan CE 1 or equivalent).
- Trees, including multi-stemmed specimen, should be cut as close to ground level as possible – definitely not higher than 30 cm. Cuts should be as horizontal as possible.

APPLICATION RATES

Foliar application

Add H&R CROP OIL at a rate of 500 ml/100 litres spray mix for all foliar applications.

WEED	DOSAGE/100 ℓ SPRAY WATER	COMMENTS
<i>Acacia mearnsii</i> (Black wattle)	300–500 ml (0,3–0,5 % mixture)	Refer to DIRECTIONS FOR USE for mixing and application details. Use the lower rate for seedlings (smaller than 50 cm) and the higher rate for saplings up to 2 m. Apply until the point of run-off.
<i>Acacia decurrens</i> (Green wattle)	375–500 ml (0,375–0,5 % mixture)	
<i>Acacia Cyclops</i> (Red Eye) <i>Acacia longifolia</i> (Long-leaved wattle)	500 ml (0,5% mixture)	Apply to the point of run-off to immature plants and actively growing saplings up to 2 m high.
<i>Asclepias fruticosa</i> (Shrubby milkbush)	500 ml (0,5% mixture)	Apply to actively growing plants to point of run-off.

<i>Chromolaena odorata</i> (Triffid weed)	500 mℓ (0,5 % mixture)	Refer to DIRECTIONS FOR USE for mixing and application details. Apply to the point of run-off to actively growing plants. Plants that are too high for a good cover spray should be slashed and the re-growth sprayed when at least 0,5 m high.
<i>Prosopis spp</i> (Mesquite)	1,0 – 1,5ℓ (1,0 – 1,5% mixture)	For seedlings (plants less than 50 cm high), use the lower rate. For coppice (re-growth), use the higher rate. Apply until the point of run-off. When target plants are too high for a proper cover spray, they should be slashed and the re-growth sprayed when it reaches a minimum height of 0,5 m.
<i>Robinia pseudoacacia</i> (Black Locust)	2,0 ℓ (2,0 % mixture)	Apply to actively growing plants. Apply until the point of run-off. Plants too high for a good cover spray should be slashed and the regrowth sprayed when not less than 0,5 m high.
<i>Rubus cuneifolius</i> (American bramble)	700 mℓ (0,7 % mixture)	Apply to the point of run-off when growth is active. If necessary, follow up when re-growth at least 0,5 m high. Target plants too high for a proper cover spray should be slashed and the re-growth treated when it reaches a minimum height of 0,5 m.
<i>Solanum mauritianum</i> (Bugweed)	600 mℓ (0,6 % mixture)	Spray actively growing plants to the point of run-off. Target plants too high for a proper cover spray should be slashed and the re-growth treated when it reaches a minimum height of 0,5 m.

Cut stump treatment

Add H&R CROP OIL at a rate of 500 mℓ/100 litres spray mix for all cut stump applications.

WEED	DOSAGE/100 ℓ SPRAY WATER	COMMENTS
<i>Chromolaena odorata</i> (Triffid weed)	2.0 ℓ (2 % mixture)	Refer to DIRECTIONS FOR USE for mixing and application details. For bigger stumps, apply to the cambial region (sapwood) of the cut surface. In all cases, apply until the point of run-off. Apply within 15 minutes of cutting the stems.
<i>Solanum mauritianum</i> (Bugweed)	3.0 ℓ (3 % mixture)	

<i>Acacia mearnsii</i> (Black wattle)	2.0 ℓ (2 % mixture)	
<i>Acacia melanoxylon</i> (Blackwood)	4.0 ℓ (4 % mixture)	Stumps should be cut no higher than 10-20 cm above soil level – ideally with a single cut surface. Apply to the entire cut surface of stumps less than 10 cm diameter. On larger stumps, concentrate on the cambial area. In case of multiple stumps, be sure to treat all cut surfaces. If any re-growth occurs, a follow-up treatment of the coppice may be required.
<i>Eucalyptus sideroxylon</i> (Black Iron Bark)	12.5 ℓ (2.5 % mixture)	
<i>Ricinus communis</i> (Castor Oil Plant)	2.0 ℓ (2 % mixture)	

Note: Whilst **ASTRA 360 SL** effectively controls certain tree and shrub species, species that were not present during the development stage of this product, may be controlled to a varying degree. However, the registration holder does not accept any responsibility for the results obtained on any unlisted trees and shrubs. Where such species do occur within the area under treatment, consult the local product representative.

*H&R CROP OIL (mineral oil), Reg. No. L6126 Act No. 36 of 1947 is the Trademark of H&R GSP (Pty) Ltd.