Read the label before opening the container. For full particulars, see enclosed leaflet.

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

SPYDER

South Africa Reg. No: L7679 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: B

A water dispersible fine granule post-emerge herbicide for the control of weeds in wheat, barley and oats in the Western, Southern and Eastern Cape and for the control of certain broadleaf weeds in winter wheat in the summer rainfall region.

ACTIVE INGREDIENT:

Chlorsulfuron (sulfonyl urea).....750g/kg

Product Information: 072 678 8226
In case of poisoning: 082 446 8946

HAZARD STATEMENTS
- Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
- Avoid release to the environment.
- Collect spillage.



WARNING

enviro™ bio-chem

Registration holder: Erintrade CC t/a RT Chemicals
Co. Reg. No: CK 2001/036403/23
44 Kerk Street, Lichtenburg NW, South-Africa
Tel: +27 12 006 0063 | Fax: +27 86 541 7948
Web: www.envirobiochem.co.za

Expiry Date:
Batch No:
Date of Manufacture:

UN No. 3077

WARNINGS:

- Very toxic to aquatic life with long lasting effects.
- Keep out of reach of children, uninformed persons and animals.
- Store under lock and key away from food and feedstuffs in a cool, dry place.
- Re-entry period: Do not enter treated field until spray deposit has dried unless wearing protective clothing.
- Aerial Application: Notify all inhabitants in the immediate vicinity and issue the necessary warnings.
- Do not spray over or allow to drift to contaminate water or adjacent areas.

Although this herbicide 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 effected 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 weed against the herbicide concerned as well as by the method, time and accuracy of the 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 herbicide 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 event of any uncertainty.

PRECAUTIONS:

- Avoid release to the environment.
- Collect spillage
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, dams or rivers.
- After use, rinse the spray equipment with a 1% solution of household ammonia. Allow this solution to stand in the spray equipment for at least 10 minutes (tank, pipes, nozzles) before rinsing the equipment twice with clean water.
- Triple rinse empty container 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 empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the content of the spray tank. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

RELEVANT SUBSTANCES:

Chlorsulfuron 74.8%
Sodium benzene sulfonate < 5%

FIRST AID TREATMENT:

INHALATION: Remove person to fresh air and keep comfortable for breathing.
INGESTION: Immediately call a POISON CENTER/doctor/physician
SKIN CONTACT: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

RESISTANCE WARNING:

For resistance management, any weed population may contain individuals naturally resistant to **SPYDER** and other herbicides from the same **group code B**. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. To delay herbicide resistance:

• Avoid exclusive repeated use of herbicides from the same group code.
• Alternate or tank mix with products from different herbicide group codes.
• Integrate other control methods (chemical, cultural, biological) into weed control programmes.
For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS:
SPYDER and **SPYDER plus** metsulfuron methyl 600g/kg WG (e.g **AMBITION**, Reg. No: L 7678).

• Follow-up Crops
SPYDER treatment:
- Do not plant treated areas with any crop other than cereals within 20 months of treatment.
- Wheat: plant 6 months after treatment
- Barley & Oats: plant 10 months after treatment
SPYDER plus AMBITION:
- Do not plant any crop other than cereals within 10 months of treatment.
- Wheat: plant 1 month after treatment
- Barley & Oats: plant 6 months after treatment
NOTE: Applications to soil with pH levels exceeding 6.5 and/or soil containing free lime may cause longer residual activity for follow up crops.
• Re-growth of weeds may be caused by light sandy soils, excessive stones on the soil surface and low plant density.
• Do not apply later than 4 weeks after post-emergence of weeds in the Western, Southern and Eastern Cape.
• If at risk of erratic control in other areas, do not apply later than 2 weeks after post-emergence of weeds.
• Do not use on oats cultivar **Heros.**
• Lengthy cold weather soon after application may cause a yellowing of the leaves and ultimately, slowed growth.
• Do not apply with copper oxychloride at rates exceeding 0.5kg/ha.
• Do not spray product on cereals growing under stress conditions.
• Do not spray on cereals under sown with pastures.
• Do not apply product in combination with insecticides containing chlorpyrifos.
• Do not use water with a conductivity exceeding 1.0ms/cm or a pH higher than 8.
• Spray product as soon as possible after mixing and do not allow to stand overnight.
• Rain before the spray deposit has dried may reduce the level of weed control.

DIRECTIONS FOR USE: Use only as indicated

Western, Southern & Eastern Cape:	Apply between 3 to 5 leaf stage
	Apply as a post-emergence spray both of crop and weeds

Mixing Instructions:
Pre-mix the required quantity of **SPYDER** or **SPYDER plus AMBITION** with a small volume of clean water to form a smooth cream. Half fill the spray tank with water and add the slurry while stirring. Add water to make up the desired spray volume. Keep the spray mixture agitated during mixing and spraying.

High Volume (e.g. ground sprayer):
SPYDER or **SPYDER plus AMBITION:** Apply with the correct amount of **Booster Oil** (Reg. No. L6148, Act No. 36 of 1947) in the spray mixture once thoroughly mixed.

SPYDER plus AMBITION plus bromoxynil 450g/ℓ: Add the required amount of bromoxynil 450g/ℓ to the spray mixture while agitating then add the required amount of **Booster Oil**.
Low Volume (e.g. aerial application):
Add the required amount of **Booster Oil** to the **SPYDER** or SPYDER **plus AMBITION** mixture and agitate for 2 minutes to ensure thorough mixing.

Application:
Ground application:
Use a correctly calibrated tractor-mounted boom sprayer. Ensure a volume of at least 200ℓ spray mixture/ha at a constant speed and pressure of 100 to 200kPa is delivered. Prevent over application by closing nozzles while starting, stopping and turning.

Aerial application:
Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SABS Code 0118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

Equipment:
- Use whirljet nozzles to produce the desired droplet and coverage of the target area and that will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 75% of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters:
- A minimum volume of 30ℓ spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 25 – 40 droplets per square cm must be recovered at the target
- A droplet spectrum with a VMD of 250 – 300 microns is recommended.
- The height of the spray boom should be maintained at between 3 and 4m above target.
- Do not spray when the aircraft is in a climb, at the top of the turn or during a dive or when banking.
- Apply before the crop growth becomes too dense, which will interfere with overall plant coverage.

Meteorological Conditions:
- The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8°C.
- Do not spray under turbulent, unstable conditions nor during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer)
- Do not spray when the wind speed exceeds 15km per hour.

General:
- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met.
- Do not spray in the heat of the day.

Compatibility:
SPYDER or **SPYDER plus AMBITION** is compatible with bromoxynil 450g/ℓ EC and **Booster Oil**.

APPLICATION TABLE A: Only for Western, Southern & Eastern Cape

CROP	DOSAGE/HA	REMARKS
Ground & Aerial application: Wheat (*Triticum Aestivum*) Oats (*Avena Sativa*) Barley (*Hordeum Vulgare*)	**SPYDER** 8g plus 3.5g **AMBITION** plus 50mℓ **Booster Oil**/100ℓ spray mixture	Use higher dosages for severe weed infestation.

NOTE:
- Do not exceed recommended dosages. Established weeds will not be controlled.
- Do not apply if crop is growing under stress.

Weeds Controlled in the Western, Southern & Eastern Cape:
8g **SPYDER** + 3.5g **AMBITION** controls the following weeds in TABLE 1:

TABLE 1:

BOTANICAL NAME	COMMON NAME	TIME OF APPLICATION
Amaranthus spinosus	Thorny pigweed	Apply at post-emergence (2 to 5 leaf stage), but not later than 4 weeks postemergence of the weeds. Under unfavourable conditions (see use restrictions), application should take place no later than 2 weeks postemergence of the weeds.
Cenia tubinata	Goose daisy	
Emex australis	Spiny emex	
Foeniculum vulgare	Fennel	
Fumaria muralis	Fumitory	
Medicago polymorpha	Burclover	
Plantago lanceolata	Narrow-leaved ribwort	
Poa annua	Winter grass	
Sonchus oleraceus	Spiny sow thisle	
Vicia hirsuta	Tiny purple vetch	
Vicia sativa	Broad-leaved purple vetch	

NOTE:
- Lolium temulentum (darnel) can be controlled provided **SPYDER + AMBITION** is applied before the 2 leaf stage of the weed.
- Fumaria muralis is more consistently controlled if application is made to young plants
- Foeniculum vulgare (fennel), Vicia hirsuta (tiny purple vetch) and Vicia sativa (broad-leaved purple vetch) can be suppressed with a post-emergence application not later than 4 weeks after the emergence of the weeds

Weeds Controlled in the Western, Southern & Eastern Cape:
12.5g **SPYDER** plus 250mℓ bromoxynil 450g/ℓ EC in TABLE 2:

TABLE 2:

BOTANICAL NAME	COMMON NAME	TIME OF APPLICATION
Emex Australis	Spiny Emex	Apply at post-emergence, but not later than 4 weeks postemerge of the weeds. Under unfavourable conditions (see use restrictions), application should take place no later than 2 weeks postemergence of the weeds.

APPLICATION TABLE B: Only for the Summer rainfall region

CROP	DOSAGE/HA	REMARKS
Ground & Aerial application: Dryland Wheat (*Triticum Aestivum*)	8g **SPYDER plus** 3.5g AMBITION **plus** 250mℓ bromoxynil 450g/ℓ EC **plus** 100mℓ **Booster Oil**/100ℓ spray mixture	Apply post-emergence at the 2 to 5 leaf stage, before weeds have exceeded the maximum recommended stage.

NOTE:

- Do not apply if crop is under stress. Do not exceed recommended dosage rate. Established weeds showing sign of regrowth will not be controlled.

Weeds Controlled in the Summer Rainfall Regions:

8g **SPYDER** plus 3.5g **AMBITION** plus 250mℓ bromoxynil 450g/ℓ EC per hectare.
Spray from seedling stage, where weeds are actively growing under moist conditions.

TABLE 3:

BOTANICAL NAME	COMMON NAME	TIME OF APPLICATION
Bilderdykia Convolvulus	Climbing Knotweed	5cm tall
Chenopodium Album	White Goosefoot	5cm tall
Polygonum Aviculare	Prostate Knotweed	5cm rank
Raphanus Raphanistrum	Wild Radish	3 tot 4 leaves
Pergula Arvensis	Corn Spurry	5cm tall