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

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

ENTRAZONE 400 WG

South Africa Reg. No: L11761 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: E

ENTRAZONE 400 WG is a water dispersible granule herbicide for post-emergent control of broadleaved weeds in wheat and barley in the Western, Southern and Eastern Cape and as directed in orchards, vineyards and other crops as listed.

ACTIVE INGREDIENT:

Carfentrazone-ethyl (Triazolinone).....400g/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: Enviro Crop Protection (Pty) Ltd
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Expiry Date:
Batch No:
Date of Manufacture:

UN No. 3077

WARNINGS:

ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS, BETWEEN LAST APPLICATION AND HARVEST (PHI). GRAZING IS NOT ALLOWED ON TREATED CROPS.

Wheat	42 days
Barley	42 days
Grapes	28 days

- Very toxic to aquatic life with long lasting effects.
- Keep out of reach of children, uniformed persons and animals.
- Avoid skin and eye contact.
- Store in a cool, dry place, in the original container, tightly closed.
- Store away from foods and feeds.

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 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:

- Obtain, read and follow all safety instructions before use.
- Avoid release to the environment.
- Collect spillage
- Store locked up.
- Extremely toxic to fish or aquatic life. Do not contaminate surface waters or rivers and streams with chemical or used container. Keep in original container only, away from food, drink and animal feeding stuffs.
- Do not smoke, drink or eat while using the product.
- Prevent spray from drifting to adjacent crops, grazing, rivers or dams.
- **Serious localized or translocated damage may occur if spray or spray drift comes into contact with leaves, fruit and/or immature bark of trees, vines or adjacent non-target crops that are not under treatment.**
- Wash spray equipment thoroughly after use. (See sprayer clean-out).
- 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:

Carfentrazone-ethyl 40%
Sodium lauryl sulfate < 10%

FIRST AID TREATMENT:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Seek medical advice immediately. Rinse mouth thoroughly.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

USE RESTRICTIONS:

- Only use **ENTRAZONE 400 WG** in tank mixture with the recommended products listed on this label.
- Do not apply by air.
- Do not apply **ENTRAZONE 400 WG** to crops under stress from drought, water logging, cold, pests or diseases, nutrient or lime deficiency or other factors reducing plant growth.
- Do not spray **ENTRAZONE 400 WG** to cereals under sown with legumes, clovers or pastures.
- Under no circumstances should unused spray mixtures be kept overnight.
- Do not apply **ENTRAZONE 400 WG + MCPA 400 SL** to a sparse crop stand. In a crop planted with a planter always apply **ENTRAZONE 400 WG** in combination with **MCPA 400 SL** + approved formulations of **AMBITION**. Crop competition is essential for optimal weed control with **ENTRAZONE 400 WG + MCPA 400 SL**.
- Full consideration should be given to the use restrictions of **AMBITION, BOOSTER AS, MCPA 400 SL** and **ENVIRO GLYPHOSATE 360**.

MINIMUM RE-CROPPING INTERVALS AND CROP ROTATION GUIDELINES:

There is no restriction on the planting of any succeeding or rotational crop after the application of **ENTRAZONE 400 WG**. All crops can be sown 1 month after such application. Full consideration should be given to the minimum re-cropping intervals and crop rotation guidelines for **MCPA 400 SL**.

ADJACENT CROPS:

BECAUSE SOME NON-TARGET CROPS ARE SENSITIVE TO ENTRAZONE 400 WG, AVOID DRIFT OF SPRAY MIXTURE ONTO BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA. REFER TO THE PRECAUTIONS AND FOLLOW ALL INSTRUCTIONS AND DIRECTIONS FOR USE ON THE ENVIRO GLYPHOSATE 360 LABEL WHEN USING THIS TANK MIXTURE.

DIRECTIONS FOR USE: Use only as indicated

GENERAL INFORMATION:

WHEAT AND BARLEY

- For optimum results, apply **ENTRAZONE 400 WG** when weeds are young and actively growing under moist conditions.
- Weeds growing under stress conditions may be less susceptible to **ENTRAZONE 400 WG.**
- **ENTRAZONE 400 WG** rapidly burns down the leaves of the targeted weeds. Final die-back of weeds may vary according to the weed species and prevailing conditions.
- Apply only when the crop is in the correct stage of development as indicated.
- Apply only to an even crop stand and avoid areas with little or no crop competition effect.
- Application by windsock applicator could enhance symptoms of chlorotic leaf scorch.
- Use a suitable buffer according to label directions where the water is known to be alkaline/hard to obtain an ideal pH of 5 to 7.

ORCHARD AND VINEYARD (PERENNIAL) CROPS

(For example: deciduous fruit, table and wine grapes, citrus, macadamia nuts.)

- Apply **ENTRAZONE 400 WG + ENVIRO GLYPHOSATE 360** to actively growing weeds and ensure good coverage especially of larger, more mature weeds.
- Difficult to control annual weeds should be treated in early spring as a pre blossom application.
- Use a suitable buffer according to label directions where the water is known to be alkaline/hard to obtain an ideal pH of 5.
- Serious localized or translocated damage may occur if spray or spray drift comes into contact with leaves, fruit and/or immature bark of trees, vines bushes or adjacent non-target crops that are not under treatment.

WEED RESISTANCE MANAGEMENT

ENTRAZONE 400 WG is a member of the triazolinone of herbicides group code E which controls weeds through the process of membrane disruption initiated by PPO (protoporphyrin oxygenase) inhibition. Resistant weeds naturally propagate when herbicides with the same mode of action are used on the same weed species for several consecutive years. The resistant weed biotypes to a specific mode of action become dominant and herbicides with the same mode of action are no longer effective in controlling that resistant weed biotype. Development of resistant biotypes can be avoided by alternating the use of products with different modes of action or by using tank mixtures of herbicides effective on the specific weed but with different modes of action. Due to the difficulty in forecasting the appearance or presence of resistant weed biotypes to **ENTRAZONE 400 WG** at the time of treatment, it is essential that all lands must be inspected regularly to identify the development of resistance early. Unless the above measures are not strictly adhered to Enviro Crop Protection (Pty) Ltd. cannot assume any responsibility for any losses that may result from the failure of **ENTRAZONE 400 WG** to control these resistant weed biotypes.

COMPATIBILITY

- **ENTRAZONE 400 WG** should only be used in mixture with the recommended products listed on the label.
- **ENTRAZONE 400 WG** should not be mixed with grass herbicides when used in cereals.
- Grass herbicides must not be applied within 7 days after an **ENTRAZONE 400 WG** application.
- Compatibility of **ENTRAZONE 400 WG** has not been fully checked. Do not attempt mixing with other insecticides, herbicides or fungicides without prior consultation of the supplier. Do not mix **ENTRAZONE 400 WG** with wetters or oils (relevant to cereals).
- Only tank mixtures with single chemicals (except where indicated otherwise) are advised, as multiple mixtures will reduce weed control efficacy.
- **ENTRAZONE 400 WG + MCPA 400 SL + AMBITION**: do not tank mix with other chemicals.
- **ENTRAZONE 400 WG + ENVIRO GLYPHOSATE 360**: only for use as directed in orchard and vineyard crops as listed: refer to **ENVIRO GLYPHOSATE 360**.
- When **ENTRAZONE 400 WG** is applied in tank mixture with **ENVIRO GLYPHOSATE 360, BOOSTER AS** must be added at the registered rates.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water. Commence agitating. Steadily add the recommended quantity of **ENTRAZONE 400 WG** into the tank (pre-mix is not necessary). Complete filling up with clean water to the required volume of spray mixture while agitating continuously and wait until product is thoroughly mixed before application. Ensure proper agitation of the spray mixture at all times until spray tank is empty. Prepare only sufficient quantity of spray mixture for immediate use. Full consideration should be given to the mixing instructions of the recommended products tank mixed with **ENTRAZONE 400 WG**.

Where **ENTRAZONE 400 WG** is used in tank mix with **ENVIRO GLYPHOSATE 360** the order of mixing should be as follows: buffer agent, **ENTRAZONE 400 WG, ENVIRO GLYPHOSATE 360**, drift control agent.

APPLICATION TECHNIQUES

Ground application only:

ENTRAZONE 400 WG works only by contact. It is therefore necessary to achieve a good overall coverage of the targeted plant.

Wheat and barley

- Apply by means of tractor mounted boom sprayer which is correctly calibrated to deliver at least 200 liters per hectare of spray mixture and a maximum of 400 liters per hectare at a constant speed and pressure (100 – 200 kPa) to ensure an even distribution.
- Avoid overlapping of swaths and close the nozzles while starting slow movement, turning and stopping to prevent over-spraying.

Ocrhard and vineyard (perennial) crops

- Apply by knapsack sprayer or suitable motorized applicator with covered (shielded) nozzles or using low pressures (100 - 200 kPa) and/or low-drift nozzles to minimize the risk of drift.
- Use of larger orifice nozzles produces larger droplets that improve coverage and effectiveness and minimize potential to drift.
- Do not exceed a speed of 5 kph when applying by tractor/ground rig.
- Do not apply when wind speed exceeds 10 kph.
- Avoid application during temperature inversion conditions.
- Apply approximately 200 liters spray mixture per hectare to ensure thorough coverage of the weeds.
- A repeat application may be necessary. In this case spot spraying is recommended.
- **It is the responsibility of the spray applicator to ensure that the spray/spray drift does not come into contact with non-target plants or crops.**

APPLICATION RATES – WHEAT AND BARLEY

CROP	DOSAGE/HA	REMARKS
Wheat (*Triticum aestivum*) **Barley** (*Hordeum vulgare*)	25g **ENTRAZONE 400 WG** + 500mℓ **MCPA 400 SL** OR 25g **ENTRAZONE 400 WG** + 500mℓ **MCPA 400 SL** + 3.5g **AMBITION**	Post-emergence spray when wheat and barley are between stages 7 and 13 according to the list of growth stages of the ARC Small Grain Institute, Bethlehem. Application should not be later than 6 weeks after weed emergence. Apply to barley in the 5 to 6 leaf stage.

WEEDS CONTROLLED

The following weed species are normally controlled by **ENTRAZONE 400 WG + MCPA 400 SL**, or **ENTRAZONE 400 WG + MCPA 400 SL + AMBITION** used at the recommended rate.

BOTANICAL NAME	COMMON NAME
Anagalis arvensis	Pimpernel
Emex australis	Spiny Emex
Erodium moschatum	Musk Heron's Bill
Fumaria muralis	Fumitory

BOTANICAL NAME	COMMON NAME
Galium spurium	Small cleaver
Malva parviflora	Small mallow
Pentzia suffruticosa	Small stinkweed
Polycarpon tetraphylum	Four-leaved all seed
Raphanus raphanistrum	Wild radish

IMPORTANT NOTE:
Weeds germinating after the application of **ENTRAZONE 400 WG + MCPA 400 SL** tank mixture will not be controlled.

APPLICATION RATES – ORCHARD AND VINEYARD (PERENNIAL) CROPS

CROP	DOSAGE/HA	REMARKS
Deciduous fruit (Apples, pears, peaches, plums, nectarines) **Vines** (Table and wine grapes) **Citrus** **Macadamia nuts**	25g **ENTRAZONE 400 WG** + 3ℓ **ENVIRO GLYPHOSATE 360** + 2ℓ **BOOSTER AS** per 100ℓ spray mixture	Apply as a directed interrow spray for the control of difficult weeds such as *Malva parviflora, Conyza bonariensis, Urtica dioica* when actively growing (ideal stage when weeds are 10 - 20cm in height). Shield young vines/trees/bushes with immature bark during application or use a covered sprayer. Ensure that contact is avoided on leaves, fruit and bark. Follow directions on the **ENVIRO GLYPHOSATE 360** labels.

SPRAYER CLEAN OUT

- Immediately after spraying drain tank completely and flush tank, as well as boom and hoses with clean water.
- Fill the tank with clean water and add household ammonia (containing 3 % active ammonia) at a rate of 1 litre for every 100 liters of water. Circulate the ammonia solution through the tank, boom and hoses for at least 10 minutes. Drain completely. Rinse tank with clean water and flush through boom and hoses to remove traces of ammonia. Use at least one tenth of the spray volume. Drain completely.
- Repeat rinsing as above.

MCPA 400 SL (L5793) is a registered product of **Villa Crop Protection (Pty) Ltd.**
AMBITION (L7678) is a registered product of **Erintrade t/a RT Chemicals.**
ENVIRO GLYPHOSATE 360 (L4767) is a registered product of **Enviro Industries (Pty) Ltd.**
BOOSTER AS (L6182) is a registered product of **RT Chemicals CC.**