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

**KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

# MSMA 720 SL

South Africa Reg. No: L8463 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: Z

A selective systemic post-emergence herbicide for the control of *Rottboellia exaltata*, annual grasses, nutsedge and certain broad-leaved weeds in lawns, sugarcane and industrial use.

**ACTIVE INGREDIENT:**

MSMA (organic arsenical).....720g/ℓ

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




**HAZARD STATEMENTS**
- Harmful if swallowed
- Harmful if inhaled
- Very toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**
- Wash hands, forearms, and face thoroughly after handling.
- Do not eat, drink, or smoke when using this product.

enviro™ bio-chem

**Registration holder: Enviro Crop Protection (Pty) Ltd.**
**Co. Reg. No: CK 2007/027855/07**
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. 3082**

**WARNINGS:**

- MSMA 720 SL can be highly toxic to grazing stock and wildlife.
- Do not allow livestock or wildlife to graze the treated areas until at least one month after treatment.
- Use with the utmost caution and under supervision.
- Harmful if swallowed
- Harmful if inhaled
- Very toxic to aquatic life with long lasting effects
- Prevent pollution of water sources that are utilized for drinking.
- Store in a cool dry place away from food, feeds, seed and fertilisers.
- Store in original container and keep tightly sealed.
- Keep out of reach of children, uninformed persons and animals.
- **In case of poisoning call a doctor and show him this label.**
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

**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 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 the weed to the remedy concerned as well as by the method, time and accuracy of application. The registration holder further 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 event of any uncertainty.**

**PRECAUTIONS:**

- Keep out of reach of children
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Wash hands, forearms, and face thoroughly after handling
- Do not eat, drink, or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Wear respiratory protection
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fumes/gas/mist/vapours/spray
- Avoid release to the environment
- Store in a well-ventilated place. Keep container tightly closed
- Collect spillage
- 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, rivers or dams.
- Dispose of contents/container in accordance with local/regional/national regulaions
- 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:**

MSMA 47.7%

**SYMPTOMS OF HUMAN POISONING:**

Diarrhoea, vomiting, irritation of the gastrointestinal tract, eye irritation.

**FIRST AID TREATMENT:**

INHALATION: Remove person to fresh air and keep comfortable for breathing.
INGESTION: Immediately call a POISON CENTER or 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 Erintrade **MSMA 720 SL** is a **group code Z** herbicide. Any weed population may contain individuals naturally resistant to Erintrade **MSMA 720 SL** and other **group code Z** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. Erintrade **MSMA 720 SL** or any other **group code Z** herbicide may not control these resistant weeds.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide 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.

**DIRECTIONS FOR USE:** Use only as directed.

- Erintrade **MSMA 720 SL** contains a wetting agent. Do not add a surfactant to the spray mixture.
- Apply Erintrade **MSMA 720 SL** with a tractor mounted boom sprayer or knapsack sprayer equipped with flat fan nozzles or floodjet nozzles. Spray 300 to 500ℓ spray solution per hectare or spot spray at 300 to 500mℓ per $10m^2$.
- Use only clean water. Agitate the spray mixture during mixing and spraying.
- Ensure that the application equipment is correctly calibrated. Ensure an even distribution of the spray droplets and thorough wetting of the target weed foliage.
- Apply during warm, sunny weather when weeds are in an active growth stage. Best results are obtained at air temperatures above 21ºC.
- Do not apply if the weeds are wet or if rain is expected within 24 hours after application as the effect may be reduced.

SUGARCANE:

- Direct the spray to the weeds in the inter-row and avoid spray contact with the crop leaves.
- When used in a combination, Erintrade **MSMA 720 SL** and the respective additional herbicide must be thoroughly mixed with water in separate containers before adding to the spray tank.
- Half fill the spray tank with the required amount of water; add the required amount of premixed diuron 800 SC or ametryn 500 SC; add the required amount of premixed Erintrade **MSMA 720 SL**; fill the spray tank to the required volume.
- Erintrade **MSMA 720 SL** should be premixed in 15 to 25ℓ of water, which should be added to the spray tank after the diuron or ametryn.
- Agitate continuously during mixing and spraying.
- Spray the solution immediately after mixing and do not allow the spray solution to stand for any length of time.

LAWNS:

- DO NOT USE ON KIKUYU OR SWAZI GRASS AS SEVERE LEAF SCORCHING MAY OCCUR.
- Allow new lawns to become established; apply only after 4 weeks of planting (i.e. mowed three times).
- Under hot and dry conditions grass may be temporarily yellowed. These symptoms will disappear with mowing.
- Apply to young actively growing weeds.

| USE | DOSAGE RATE | REMARKS |
|---|---|---|
| **Sugarcane** | 6ℓ/ha<br><br>**OR**<br>4ℓ/ha **plus**<br>3ℓ diuron 800 SC/ha<br><br>**OR**<br>4ℓ/ha **plus**<br>3 - 4ℓ ametryn 500 SC/ha | Apply as a late post-emerge inter-row directed spray over the weeds. This treatment may cause sugarcane leaf scorch – avoid spray contact with the sugarcane leaves.<br>Use the higher rates for severe weed infestation or less susceptible weed stages. |
| **Lawns**<br>***Cynodon Dactylon* only**<br>(Common quick grass)<br>(Couch grass) | 70mℓ/10ℓ water | Lawns should not be mowed for 4 days prior to treatment.<br>Apply 1ℓ of spray mixture per 10m² lawn.<br>Repeat as necessary at 21 day intervals. |
| **Industrial** | 6ℓ/ha<br>(60mℓ/100m²) | Apply as an overall spray for the control of grasses and certain broad-leaved weeds along roadsides, railway lines and other sites. Ensure thorough wetting of all the foliage. |

## WEEDS NORMALLY CONTROLLED BY ERINTRADE MSMA 720 SL:

| YOUNG BROADLEAF WEEDS | |
|---|---|
| BOTANICAL NAME | COMMON NAME |
| *Acanthospermum Hispidum* | Upright Starbur |
| *Amaranthus Hybridus* | Cape Pigweed |
| *Bidens Bipinnata* | Spanish Blackjack |
| *Bidens Pilosa* | Common Blackjack |
| *Commelina Benghalensis* | Wandering Jew |
| *Portulaca Oleracea* | Purslane |

| NUTSEDGES | |
|---|---|
| BOTANICAL NAME | COMMON NAME |
| *Cyperus Esculentus* | Yellow Nutsedge |
| *Cyperus Rotundus* | Purple Nutsedge<br>(In Lawns And Turf Only) |

| GRASSES | |
|---|---|
| BOTANICAL NAME | COMMON NAME |
| *Digitaria Sanguinalis* | Crabfinger Grass |
| *Digitaria Swazilandensis* | Swaziland Fingergrass |
| *Eleusine Indica* | Goose Grass |
| *Panicum Schinzii* | Vlei Panicum |
| *Panicum Maximum* | Common Buffalo Grass |
| *Sorghum Verticilliflorum* | Common Wild Sorghum |
| *Stenotaphrum Secundatum* | St Augustine Grass |
| *Urochloa Panicoides* | Garden Urochloa |
| *Rottboellia Exaltata* | Guinea Fowl Grass |

**NOTE: For maximum effect weeds should be sprayed at the specified growth stages:**

| | |
|---|---|
| *Rottboellia Exalta:* | 10 to 50cm |
| *Panicum Spp., Digitaria Spp. and Sorghum Verticilliflorum:* | 10 to 30cm |
| *Eleusine Spp. and Urochloa Panicoides:* | less than 3cm |
| *Cyperus Spp.:* | Pre-flowering to full flowering |
| *Cyperus Spp.:* | A repeat application may be necessary when chlorotic nutsedge plants show signs of greening up after first application. |