



MCPA 400SL



HERBICIDE

A selective soluble concentrate hormone type herbicide for the post emergent control of annual weeds, as indicated, in wheat and barley.

Reg. No.: 10-C-35-30

COMPOSITION:

MCPA (Potassium salt).....400 g/l

(phenoxy acetic acid)

Inert ingredients.....to 1 litre

20Litres



POISON

KEEP OUT OF REACH OF CHILDREN



1. Tripple rinse clean container after use
2. Punctures holes in bottom
3. Return to Maguires Recycling Facilitator / Return to nearest recycling facility

Registration held by:

MAGCHEM (PVT) LIMITED,
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE

DIRECTIONS FOR USE: Use only as directed

APPLICATION: Avoid fine droplet size. Use low-pressure flat fan nozzles of 80E or equivalent anti-drift type and do not exceed spray pressure of 200kPa. Apply in a spray volume of 200 - 300l of water/ha.

PRE-EMERGENCE TREATMENT: Plant the crop in a weed-free, moist soil immediately after preparation of a fine seedbed. For the control of annual grasses, as indicated, application should be made before emergence of the grass seedlings.

POST-EMERGENCE TREATMENT: Apply only when the crop is in the correct stage of development, as indicated. Weeds should only be sprayed in the young stages and when growing actively in a moist soil. Rain one day after application will not reduce the efficacy of the herbicide.

APPLICATION RATES:

CROP	DOSAGE (l/Ha)	REMARKS
BARLEY	2,0-3,0	Apply when the crop has reached the 5-leaf stage (five leaves on the main haulm with the sixth leaf already visible).
WHEAT	2,0-3,0	Apply when the crop has reached the 3-5 leaf stage and weeds are still small.

SAFETY PRECAUTIONS**Empty container disposal**

invert the empty container over the spray tank 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 the container. Add the rinsings to the contents of the spray tank. Destroy the empty container by perforation and flattening. Return to supplier for recycling. DO NOT use for any other purpose. Dispose of the wash water at a site for the disposal of pesticides.

Decontamination of sprayer

Clean applicator thoroughly after use and ensure that all traces of **MCPA 400 SL** are removed. Make use of the following method;

- Drain and rinse tank, spray boom and hoses with clean water for at least 10 minutes
- Fill tank with clean water and add it to 1 litre household bleach (5%) or 1.5 Litres of household bleach (3.5%) per 200 Litres of water. Rinse hoses and spray boom and leave in tank for 15 minutes whilst agitating. Drain through nozzle outlets.
- Repeat step (b) and thereafter, rinse thoroughly with clean water and dispose of the wash water at a site designated for the disposal of pesticides.

WARNINGS:

- Allow seven days between last application and grazing of treated areas.
- Avoid spray drift onto susceptible crops e.g. all broadleaf crops as well as all grain varieties in a susceptible stage of growth.**
- Thoroughly clean applicator with household ammonia solution (1%) before using with other pesticides.
- Do not apply to land adjacent to susceptible crops as well as grain varieties in a susceptible growth stage. May be applied by air or by tractor sprayer on land in the vicinity of susceptible crops, provided that adequate precautionary measures are taken to avoid spray drift.

PRECAUTIONS:

Handle with care. Poisonous when swallowed. Store away from food, feeds, seed and other agricultural chemicals. Keep out of reach of children, uninformed persons and animals. Avoid inhalation of spray mist. Wash contaminated clothing daily. Do not eat, drink or smoke whilst applying and mixing, or before washing face and hands and change of clothing. Prevent spray drift onto other crops, grazing, rivers, dams and any area not under treatment. Prevent contamination of food, feeds, drinking water and eating utensils.

Clean applicator with a household ammonia solution (1%) before using with other pesticides. Let solution stand for several hours, preferably overnight. Rinse at least twice. This applicator should not be used for applying chemicals other than herbicides. Dispose of wash water where it will not contaminate food, grazing, rivers or dams. 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 rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy empty container by perforation and flattening and never use for any other purpose.

SOME WEED SPP NORMALLY CONTROLLED BY MCPA 400SL:

<i>Ageratum conyzoides</i>	Billygoat weed
<i>Amaranthus spp.</i>	Pigweed
<i>Bidens pilosa</i>	Common blackjack
<i>Chenopodium album</i>	Fat hen
<i>Commelina benghalensis</i>	Wandering Jew
<i>Portulaca oleracea</i>	Common purslane
<i>Tagetes minuta</i>	Tall khakiweed
<i>Volunteer soyabeans</i>	

SYMPTOMS OF HUMAN POISONING:

Headaches, nausea, vomiting, diarrhoea followed by pains, lameness and twitching of muscles.

FIRST AID TREATMENT:

- Remove patient from source of poisoning.
- Skin contact: Remove contaminated clothing and shoes. Wash effected area with soap and water.
- Eye contact: Wash eyes immediately with water.
- Ingestion: Do not induce vomiting.
- Inhalation: Remove patient to fresh air.

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.

WARRANTY:

Excellent results should be achieved from the use of this product provided the recommendations on this label are followed in full. However as the application of the product and the conditions under which it is used are beyond the control of the supplier, no warranties are given with regard to the use of this product.

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

Date of Manufacture: 1 September 2014

Batch No.:20140901

Manufactured by:

NOVAAGRO (HK) LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONG KONG

Registration held by:

MAGCHEM (PVT) LIMITED,
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE



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SUPPLIER: NOVA AGRO (HK) LTD
(Reg. No. 1023146)
6th Floor Wyndham Place
44 Wyndham Street
CENTRAL HONG KONG.

EMERGENCY TELEPHONE NUMBERS

POISONINGS:

National Poison Centre (+27) 800 333 444 (24 H)
(South Africa)

1. IDENTIFICATION OF THE SUBSTANCE

Trade name: MCPA 400SL
Active ingredient: MCPA
Chemical name: (4-chloro-2-methylphenoxy)acetic acid (IUPAC) -potassium salt.
CAS number: 5221-16-9
Chemical family: Phenoxyacetate herbicide.
Chemical formula: C₉H₈ClKO₃ (Mol. wt. 238.72)
NIOSH/RTECS No. AG1575000
UN No. Not regulated.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components MCPA 400g/l potassium salt
EEC number 202-360-6
R phrases R22- R36/38 - R41

3. HAZARDS IDENTIFICATION

Toxicity class:
WHO III; EPA III.
Main Hazard: Slight irritant.
Flammability: Not flammable.
Biological hazards:
Likely routes of exposure:
Eye contact, skin contact, ingestion, and inhalation.
Eye contact:
May cause severe irritation with cornea injury.
Skin contact:
Prolonged or repeated skin contact may cause skin irritation.

Inhalation:

May be hazardous.

Ingestion:

May cause gastrointestinal irritation.

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

Remove source of contamination, or leave contaminated area to fresh air as rapidly as possible. Treat symptomatically and supportively. Single exposure to vapors is not likely to be hazardous.

Skin contact:

If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists, **seek medical advice immediately.**

Eye contact:

Immediately flush eyes with gently flowing water for 15 minutes, holding the eyelids open. **Seek medical attention.**

Ingestion:

Unlikely to occur under occupational conditions. In case of deliberate ingestion, have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Give plenty of water to drink (1-2 glasses). Seek medical advice immediately

Advice to physician:

There is no antidote, and symptomatic treatment should be given.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Small or large fires: Carbon dioxide, dry chemical powders, foam and water.

Special hazards:

The material does not burn or burns with difficulty. It is not explosive. Should the chemical be involved in a general fire, ensure chemical protective clothing are used. See point 6.

Hazardous combustion products:

Hydrogen chloride, carbon monoxide, and noxious vapours.

Protective clothing: Wear suitable personal protective equipment including approved respiratory protection

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**5. ACCIDENTAL RELEASE MEASURES
(SPILLAGE)**

Personal precautions:

Chemical protective clothing usage is advised, i.e. wear neoprene gloves, cotton overalls and safety goggles. Do not wear contact lenses.

Occupational spill:

Keep spectators away. Isolate hazard area and deny entry. Stay upwind, out of low-lying areas, and ventilate closed spaces before entering. Cover spill with absorbent material. Sweep into disposal container. Wash area with detergent and water and follow with clean water rinse. Do not allow spill to contaminate water supplies. Dike far ahead of liquid spills for later disposal.

**7. HANDLING AND STORAGE
REQUIREMENTS**

Handling:

Relatively safe to handle. Handle with the care and caution due crop protection chemicals. Avoid spillage.

Storage:

Store in a dry, cool covered warehouse in well-labeled containers. Store away from food, feedstuffs, fertilisers, seed and agricultural chemicals. Keep away from children and animals. Local regulations should be complied with.

**8. EXPOSURE CONTROL / PERSONAL
PROTECTION**

Occupational exposure limits:

OSHA TWA 240 liter (volume)

TLV Not established.

Engineering control measures:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable

personal protective equipment including approved respiratory protection.

Respirator:

An approved respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection:

The use of safety goggles is recommended.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**9. PHYSICAL AND CHEMICAL
PROPERTIES**

Appearance: Light to dark brown liquid.

Odour: Hydrocarbon (amine) odour.

pH: 7.4 at 1%

Flash point: Not applicable.

Density: 1.19g/cm³ at 20°C

Explosive properties: Not explosive

Stability: Thermally stable at room temperature.

10. STABILITY AND REACTIVITY

Storage stability:

Stable at elevated temperatures and at low temperatures. Do not store near crop protection chemicals, feed, fertilisers or seed. Do not store at temperatures below 0°C.

Dilution stability:

Stable in aqueous solutions.

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11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ : 900-1160mg/kg in rats.
Acute dermal LD₅₀: >4000mg/kg in rabbits.
Acute inhalation: LC₅₀ 4-hour: 6,36g/m³ in rats.
Acute skin irritation: Slight irritant.
Acute eye irritation: Very irritating to eyes.
Acute sensitisation: Non sensitising in guinea pigs.

Carcinogenicity, Teratogenicity, Mutagenicity:

The International Agency for Research on Cancer lists phenoxyacetic acid herbicides as a class 2B carcinogen, limited evidence in humans. EPA classifies these herbicides as a class D. Results of tests on this product in animals have been inconclusive.

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGY:****Birds:**

LD₅₀: 377mg/kg b.w. (bob white quail)

Fish:

LC₅₀: 232mg/l (96 h) (Trout)

Daphnia magna:

48-h EC₅₀ >100,0 mg/l

Bees:

LD₅₀: 0,104mg/bee (*Apis mellifera*.)

Earthworms:

No data.

13. DISPOSAL CONSIDERATION**Controlled incineration:**

Stable under normal temperatures and pressures. Incineration at high temperatures (1000°C) equipped with an afterburner and scrubber with sufficient residence time leads to complete detoxification and destruction and is the most environmentally acceptable method for disposal.

Package product wastes:

Combustible containers should be disposed of in pesticide incinerators or in specified landfill sites. Non-combustible containers must be triple rinsed with water, punctured and disposed of in specified landfill areas. Comply with local regulations.

14. TRANSPORT INFORMATION

UN NUMBER: NOT REGULATED

15. REGULATORY INFORMATION

Symbol: Xn

Risk phrases:

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin

R41 Risk of serious damage to eyes.

Safety phrases:

S1/ 2 Keep locked up and out of the reach of children.

S13 Keep away from food, drink, and animal feedstuffs.

S23 Do not breathe vapour or spray.

S36 Wear suitable protective clothing.

S45 In case of accident or if you feel unwell, seek medical advice immediately

Indication of danger: Harmful.

National legislation: In accordance with 91/155/EEC Directive and with French standard T 01-102 and the South African Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993).

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.



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REFERENCES

- Applicable own physical and chemical, studies.
 - *The Pesticide Manual*; 13th Edition; Editor Clive Tomlin; Crop Protection Publications, 2003.
 - *Pestline*; Material Safety Data Sheets for Pesticides and Related Chemicals; Volume II; Occupational Health Services Inc., 1991.
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