



MATERIAL SAFETY DATA SHEET

SUBJECT : MCPA 400SL

EFFECTIVE DATE : January 2021

REVISION NO : 3

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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 478g/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 brown to brown liquid.

Odour: Hydrocarbon (amine) odour.

pH: 8.4 at 1%

Flash point: Not applicable.

Density: 1.18g/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: 3082
CLASS NUMBER: 9
PACKING GROUP: III

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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