MATERIAL SAFETY DATA SHEET

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

SECTION I - IDENTIFICATION OF PRODUCT

MANUFACTURER'S NAME: Platte Chemical Co.
150 South Main Street
Fremont, NE 68025-5697

EMERGENCY TELEPHONE NO.: CHEMTREC (800) 424-9300 (24 Hours)

TRADE NAME AND SYNONYMS: CLEAN CROP MCP 4 AMINE HERBICIDE

CHEMICAL NAME AND SYNONYMS: MCP Amine: Dimethylamine salt of 2-methyl-4-chlorophenoxyacetic acid

CHEMICAL FAMILY: Phenoxy herbicide

EPA REGISTRATION NUMBER: 62719-13-34704

SECTION II - PRODUCT COMPONENTS

<table>
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<tr>
<th>COMPONENT:</th>
<th>%</th>
<th>THRESHOLD LIMIT VALUE (Units):</th>
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<tr>
<td>2-methyl-4-chlorophenoxyacetic acid (CAS: 2039-46-5)</td>
<td>52.1</td>
<td>None established</td>
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<tr>
<td>Inert Ingredients</td>
<td>47.9</td>
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SECTION III - PHYSICAL INFORMATION

APPEARANCE AND ODOR: Straw colored liquid with slight amine odor

BOILING POINT (°F): >100

SOLUBILITY IN WATER: Infinite (miscible)

BULK DENSITY: 9.33-9.43 lbs./gal.

SPECIFIC GRAVITY (WATER = 1): 1.129 @ 68°F

EVAPORATION RATE (BUTYL ACETATE = 1): Lower than Butyl Acetate

VAPOR DENSITY (AIR = 1): Not applicable

PERCENT VOLATILE (BY VOLUME): 44

VAPOR PRESSURE (MM OF MERCURY): 90 @ 20°C

pH: 8-9

SECTION IV - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (SPECIFY METHOD - °F): 193 (TCC)

FLAMMABLE LIMITS (PERCENT BY VOLUME): None established

FIRE EXTINGUISHING MEDIA: Water fog, alcohol foam

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive-pressure, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic, irritating vapors may be formed if product is involved in fire. Contain water from fire fighting to prevent entry to water supplies.

NFPA HAZARD RATING:

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<td>Severe</td>
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| Least | 1 Slight | 2 Moderate | 3 High | 4 Severe | 3 Health | 2 Flammability | 0 Reactivity |

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STABILITY: Stable  CONDITIONS TO AVOID: Temperature near or above flash point

INCOMPATIBILITY (Avoid contact with): Not known

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and other toxic, irritating vapors may be produced if product is involved in fire.

HAZARDOUS POLYMERIZATION: Will not occur.  CONDITIONS TO AVOID: None known.

SECTION VI - HEALTH INFORMATION

TOXICOLOGICAL TEST DATA: (Source of Information - Registry of Toxic Effects of Chemical Substances):
Acute Oral LD$_{50}$ (rat): 1876 mg/kg; Acute Dermal LD$_{50}$ (rabbit): > 2000 mg/kg

EFFECTS OF OVEREXPOSURE:
Eye: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.
Skin Contact: Prolonged exposure may cause skin irritation.
Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Repeated skin exposure may result in absorption of harmful amounts.
Ingestion: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.
Inhalation: Single exposure to vapors is not likely to be hazardous.

Teratology (Birth Defects): Has caused birth defects in laboratory animals only at doses toxic to the mother.
Reproductive Effects: In animal studies, has been shown to interfere with fertility in males.
Mutagenicity: In-vitro mutagenicity studies were negative in some cases and positive in other cases. Animal mutagenicity studies were inconclusive.

EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning.
Eyes: Flush with plenty of water for at least 30 minutes. Get medical attention.
Skin: Wash with plenty of soap and water. If irritation persists, get medical attention.
Ingestion: Do not induce vomiting. Consult a physician.
Inhalation: Remove victim to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: May cause tissue destruction leading to stricture. If lavage is performed, endotracheal and/or esophagoscopic control is suggested. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

POTENTIAL CARCINOGEN STATUS (Source of Information - Registry of Toxic Effects of Chemical Substances):
None listed by IARC, NTP or OSHA

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Absorb spill in inert material such as sand or sawdust. Dike area in case of large spills. Keep out of streams or domestic water supplies.

WASTE DISPOSAL METHOD:
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
SECTION VIII - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING:
- Eye Protection (Type): Chemical goggles
- Gloves (Type): Rubber or impervious gloves
- Respiratory Protection: Not normally required. If vapors exceed acceptable levels, wear MSHA/NIOSH approved respirator with pesticide cartridge.
- Other Clothing: Long sleeved shirt, long pants, rubber boots and socks. Wash clothing before reuse.

VENTILATION:
- Local Exhaust: Not normally required
- Mechanical (General): Use if ventilation is not adequate
- Special: Not normally required
- Other: Work in a well ventilated area

EPA HANDLER REQUIREMENTS
Worker Protection Standard
40 CFR 170
Note, the following PPE requirements address handler/applicator requirements under FIFRA and may differ from what is felt necessary to address a clean up, needs during formulation/manufacturing or other times of involvement with the product.

Personal Protective Equipment:
Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION IX - SPECIAL PRECAUTIONS

HANDLING AND STORAGE:
Keep out of reach of children. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist. Keep container tightly closed when not in use. Product exposed to subfreezing temperatures should be warmed to at least 40 degrees F and mixed thoroughly before using. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. For handling relative to end-use of this product, read the product label for further information concerning the use of personal protective equipment (PPE) under the Worker Protection Standard of 1993.

SECTION X - REGULATORY INFORMATION

SARA TITLE III HAZARD CATEGORY:  
IMMEDIATE ___Y___  FIRE ____Y____  SUDDEN RELEASE 
DELAYED ___N____  REACTIVE ___N____  OF PRESSURE ___N____

SUBSTANCES REGULATED UNDER SARA, TITLE III, SECT. 313:
None

DATE OF ISSUE: 05/17/95
SUPERSEDES: 01/19/88

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