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Information Phone: (800) 345-3330
Date Issued: 9/ 2/97
Supersedes: 2/14/92
Product Code: L143R
MSDS Number: 143-1

MATERIAL SAFETY DATA SHEET:

MCPA-4 Amine

1. INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Weight %</u>	<u>Common Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid	2039-46-5	48.58%	DMA Salt of MCPA	N/A	N/A
Other ingredients including water* and sequesterents	*7732-18-5	51.42%	Inert Ingredients	N/A	N/A
	Total	100.00%			

2. HEALTH DATA

PRIMARY ROUTE OF ENTRY:

Dermal/ Eye: Yes **Oral:** Yes **Inhalation:** No

SYMPTOMS OF OVEREXPOSURE:

Nonspecific: muscle weakness, lethargy, loss of appetite, abdominal pains, headache, or shortness of breath.

ACUTE HEALTH EFFECTS

Inhalation:

Avoid inhaling vapors or mist. May irritate the respiratory tract or cause dizziness.

Eyes:

Direct and prolonged eye exposure to the concentrated product may cause corneal opacity, irreversible eye damage.

Skin:

This product is considered a minimal skin irritant and is not a dermal sensitizer. Harmful if absorbed through skin. May cause similar symptoms to ingestion.

Ingestion:

May cause muscle weakness, nausea, diarrhea, and abdominal pain. Fall in blood pressure or myotonia (prolonged muscular spasm) may occur under extreme exposure conditions. Can be fatal.

TOXICOLOGICAL DATA

Acute Oral LD50:

1.8 g/ kg (male rat); 1.3 g/ kg (female rat)

Acute Dermal LD50:

> 2 g/ kg (rabbits)

Acute Inhalation LC50:

no mortality at > 3.8 mg/ l; maximum obtainable concentration (rabbits)

Eye Irritation:

corneal involvement, irreversible irritation (rabbits)

Dermal Irritation:

minimal irritation (rabbits)

Dermal Sensitization:

not a sensitizer (guinea pigs)

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Skin exposure may aggravate existing skin conditions. Exposure to mist may aggravate existing respiratory conditions.

CHRONIC HEALTH EFFECTS:

Agency Listing Carcinogen

NTP IARC OSHA

No No No

Repeated or prolonged overexposure to phenoxy herbicides may cause liver, kidney, gastrointestinal or muscular system effects. The available evidence on MCPA indicates that it is not a carcinogen or mutagen. No conclusions can be drawn about the teratogenic risk of MCPA.

3. FIRST AID MEASURES**EYE CONTACT:**

Hold eyelids open and flush entire eye with a steady, gentle stream of water for 15 minutes. Get medical attention at once.

INHALATION:

Remove victim to fresh air and apply respiration if indicated.

INGESTION:

Call a physician or Poison Control Center. Drink promptly a large quantity of milk, egg whites or gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol. Do not induce vomiting or give anything by mouth to an unconscious person.

SKIN CONTACT:

Wash promptly with soap and water and rinse thoroughly.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate gastric lavage. If large amounts of the product were ingested, the stomach should be emptied by gastric intubation.

4. FIRE FIGHTING MEASURES**FLASH POINT (F):**

N/A

FLASH POINT METHOD USED:

None- aqueous solution

EXTINGUISHING MEDIA:

Use CO2 or dry chemical for small fires and foam, water fog, or water stream for large fires. Use water spray to cool closed containers.

COMBUSTION PRODUCTS:

Decomposition products may include, but are not limited to: hydrogen chloride and nitrogen oxides

SPECIAL FIRE FIGHTING PROCEDURES:

May produce toxic and noxious fumes under extreme fire conditions. Use positive pressure self-contained breathing apparatus and acid resistant protective clothing. Any water used to extinguish the fire should be contained by diking to prevent contamination of the public water system.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Drums of product will burst from steam pressure under prolonged fire conditions.

See Section 13, REGULATORY INFORMATION, for NFPA ratings.

5. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

When cleaning large spills, wear the suggested safety equipment (see section 7). Surround with impervious material such as dirt to prevent run-off. Absorb product with an inert absorbent such as clay granules or wood shavings. Contain all affected material in a closed, labeled container for proper disposal. Treat contaminated area with detergent and water.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Always use original container to store pesticides in a secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides, or fungicides. Store at temperatures above 32 F. If allowed to freeze, warm to at least 40 F and remix before using. Freezing does not alter this product. Containers should be opened in well ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminate water, food, or feed by storage or disposal.

WORK HYGIENIC PRACTICE:

Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

7. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Respiratory protection is not normally required. Use a NIOSH/MSHA approved respirator when directly exposed to mist.

VENTILATION:

Open ventilation. Reduce all mist with local exhaust.

Rubber chemical gloves

EYE PROTECTION:

Wear splash goggles or face shield when mixing, loading or applying.

OTHER PROTECTIVE EQUIPMENT:

Long sleeved shirt, long pants, socks and shoes are recommended.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Dark liquid, slight ammonia odor

SOLUBILITY IN WATER:

100% in water

BOILING POINT (F):

> 212

VAPOR PRESSURE (mm Hg @ 20 C):

Equivalent to water

SPECIFIC GRAVITY (H20 = 1):

1.140

pH:

7.5 - 8.5

FREEZING POINT (F):

32

POUNDS PER GALLON:

9.12

9. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid heat conditions

INCOMPATIBILITY:

Strong oxidizers or acids

HAZARDOUS BYPRODUCTS:

None

HAZARDOUS POLYMERIZATION:

Will Not Occur

10. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

MCPA has a relatively short half-life of 20-60 days (on average) in soil. It is broken down by microbes in soil and by photolysis and aquatic microorganisms in water.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law. If this product cannot be disposed of by use according to the label, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office.

CONTAINER DISPOSAL:

Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling, or puncture and dispose of in a sanitary landfill. Plastic containers are also disposable by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

12. TRANSPORTATION INFORMATION

DOT REGULATED CONTAINER SIZE: N/A

PROPER SHIPPING NAME: Compound, Weed Killing, Liquid, Not DOT Regulated

13. REGULATORY INFORMATION

SARA TITLE III; Section 311/312:

An immediate and delayed health hazard.

REPORTABLE QUANTITY (RQ):

N/A

SARA TITLE III; Section 313- This product contains the following substances subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

N/A

HMIS INFORMATION	
HEALTH:	2
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTIVE:	D

NFPA INFORMATION	
TOXICITY:	2
FIRE:	1
REACTIVITY:	0
SPECIAL:	N

The information given herein is to the best of our knowledge true and accurate. No warranty, however, expressed or implied, is made.