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Date Issued: 1/20/98

Supersedes: 1/4/95

Product Code: H283R

MSDS Number: 283-1

MATERIAL SAFETY DATA SHEET:

Triplet Water Soluble

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 2,4-Dichlorophenoxyacetic Acid	2008-39-1	60.20%	DMA Salt of 2,4-D	10 mg/m ³ (2,4-D Acid)	N/A
Dimethylamine Salt of 2-(2-Methyl-4-Chlorophenoxy) propionic Acid	32351-70-5	24.20%	DMA Salt of MCP	N/A	N/A
Dimethylamine Salt of Dicamba (3,6-Dichloro-o-Anisic Acid)	2300-66-5	6.02%	DMA Salt of Dicamba	N/A	N/A
Other ingredients including water*	*7732-18-5	9.58%	Inert Ingredients	N/A	N/A
	Total	100.00%			

2. HEALTH DATA

PRIMARY ROUTE OF ENTRY: **Dermal/ Eye:** Yes **Oral:** Yes **Inhalation:** No

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 undiluted 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: >0.5 g/ kg, no mortality (male rats); 0.812 g/ kg (female rats)

Acute Dermal LD50: male, 1.624 g/ kg; female, 1.414 g/ kg (rabbits)

Acute Inhalation LC50: no mortality at 4.27 mg/ l, the maximum concentration (rabbits)

Eye Irritation: corrosive, irreversible damage (rabbits)

Dermal Irritation: slight irritation (rabbits)

Dermal Sensitization: not a sensitizer (guinea pigs)

**MEDICAL CONDITIONS POSSIBLY
AGGRAVATED BY EXPOSURE:**

CHRONIC HEALTH EFFECTS:

Agency Listing Carcinogen		
<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
No	No	No

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

Repeated or prolonged overexposure to phenoxy herbicides may cause liver, kidney, gastrointestinal or muscular system effects. The EPA's Science Advisory Panel has given 2,4-D and dicamba a class D classification (not classifiable as to human carcinogenicity). Various epidemiological studies have yielded conflicting results with the majority being negative. The current scientific consensus is that there is no proven causal association between 2,4-D and cancer. Recent studies have not shown 2,4-D to be a mutagen or teratogen. Animal tests with dicamba have not demonstrated carcinogenic, teratogenic, or other reproductive effects with the exception of slightly reduced fetal body weights and post implantation losses reported at the Maximum Tolerated Dose level. The majority of evidence shows that it is not a mutagen. Other chronic effects of MCPP have not been determined.

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. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.
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 affected area with soap and water. If irritation persists, get medical attention.
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- granular product, does not flash
EXTINGUISHING MEDIA:	Use CO2 or dry chemical for small fires and water fog or foam for large fires.
COMBUSTION PRODUCTS:	May include, but are not limited to: hydrogen chloride and nitrogen oxides.
SPECIAL FIRE FIGHTING PROCEDURES:	May emit toxic fumes when heated to decomposition. Use positive pressure self-contained breathing apparatus in smoke or fumes. Contain water used in fire fighting to prevent entry to public water system.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Product dissolves readily in water and will spread with contact water. See Section 13, REGULATORY INFORMATION, for NFPA rating.

5. ACCIDENTAL RELEASE MEASURES

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

If product has not become wet or mixed with foreign material, it may still be used for its intended purpose. Otherwise, sweep up all spilled material, and place in a closed, labeled container for proper disposal.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Always use original container to store pesticides in a secure warehouse or storage building. This product should be stored in a cool, dry location. Do not store near seeds, fertilizers, insecticides, or fungicides. Container should be opened in a well ventilated area. All containers should be kept tightly sealed when not in use. Do not contaminate water, food or feed by storage or disposal.

WORK HYGIENIC PRACTICE:

After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

7. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Wear a NIOSH/MSHA approved pesticide respirator when exposed to mist or respirator with a dust filter when exposed to dust.

Open ventilation. Reduce all dust or mist with local exhaust.

PROTECTIVE GLOVES:

Rubber or chemical-resistant gloves (See Precautionary Statements on product label for details)

EYE PROTECTION:

Wear splash goggles, face shield, or safety glasses with front, brow, and temple protection.

OTHER PROTECTIVE EQUIPMENT:

Wear long pants, long sleeved shirt, socks, and shoes when mixing, loading or applying.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Granular product, medium to dark tan, light amine odor

SOLUBILITY IN WATER:

100% in water

SPECIFIC GRAVITY:

N/A

pH:

(3% aq) 4.0-5.0

FREEZING POINT (F):

N/A

BULK DENSITY:

39 lbs/ cubic foot

9. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

None determined

INCOMPATIBILITY:

Strong oxidizers or acids

HAZARDOUS BYPRODUCTS:

None

Will Not Occur

10. ECOLOGICAL INFORMATION**ENVIRONMENTAL FATE:**

2,4-D, MCP, and Dicamba each have a relatively short half-life of (on average) 6-9 days, 5-17 days, & 1-4 weeks, respectively. Phenoxy herbicides and Dicamba are biodegraded by soil microbes and aquatic microorganisms. The active ingredients in this product do not bioaccumulate to any significant degree in animals.

ECOTOXICITY:

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants.

11. DISPOSAL CONSIDERATIONS**PRODUCT DISPOSAL:**

Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixtures or rinsate is a violation of Federal law and may contaminate groundwater. If 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 for guidance.

CONTAINER DISPOSAL:

Outer plastic bags, cartons, and shipping cases may be offered for recycling or disposed of in a sanitary landfill or 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, Solid, Not DOT Regulated

13. REGULATORY INFORMATION**SARA TITLE III; Section 311/312:**

An immediate and delayed health hazard.

REPORTABLE QUANTITY (RQ):

100 lbs of 2,4-D acid equivalent or approximately 200 lbs of Triplet Water Soluble. For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

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:

Dimethylamine of Dicamba CAS #: 2300-66-5

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.