

Riverdale

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Date Issued: 9/23/97

Supersedes: 3/14/95

Product Code: B190R

MSDS Number: 190-1

MATERIAL SAFETY DATA SHEET:

Triamine Jet Spray Spot Weed Killer

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	0.326%	DMA Salt of 2,4-D	10 mg/m ³ (2,4-D Acid)	NA
Dimethylamine Salt of 2-(2,4-Dichlorophenoxy)propionic Acid	53404-32-3	0.324%	DMA Salt 2,4-DP	N/A	N/A
Dimethylamine Salt of 2-(2-Methyl-4-Chlorophenoxy) propionic Acid	32351-70-5	0.328%	DMA Salt of MCPDP	N/A	N/A
Water and Sequesterents	N/A	99.022%	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 may cause moderate, yet temporary, eye irritation.

Skin:

May cause mild skin irritation or dermal sensitization reactions in some individuals. Harmful if absorbed through skin. Prolonged or repeated overexposure may result in effects similar to those caused by ingestion.

Ingestion:

Low oral toxicity. May cause muscle weakness, nausea, vomiting, abdominal pain, fall in blood pressure or myotonia (prolonged muscular spasm) if ingested in large quantities.

TOXICOLOGICAL DATA

Acute Oral LD50:

5.0 g/ kg (rats)

Acute Dermal LD50:

> 2.0 g/ kg (rabbits)

Acute Inhalation LC50:

> 4.0 mg/ l (rabbits)

Eye Irritation:

minimal irritation, clearing in less than 24 hours (rabbits)

Dermal Irritation:

slight 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	
<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
No	No	No

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 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. Other chronic effects of 2,4-DP and 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.
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 1-2 glasses of water and induce vomiting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
SKIN CONTACT:	Wash promptly with soap and water and rinse thoroughly. If irritation develops, get medical attention.
NOTE TO PHYSICIAN:	Treat symptomatically.

4. FIRE FIGHTING MEASURES

FLASH POINT (F):	N/A
FLASH POINT METHOD USED:	None- aqueous solution
EXTINGUISHING MEDIA:	Use dry chemical, CO ₂ , water fog or foam if available. Use water spray to cool closed containers.
COMBUSTION 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:	None Known 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:

Keep from freezing. To be stored in original container and placed in a locked area inaccessible to children. Do not store near feed or foodstuffs.

WORK HYGIENIC PRACTICE:

Wash nondisposable gloves thoroughly with soap and water before removing. After using this product, 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:	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.
PROTECTIVE GLOVES:	Chemical-resistant gloves
EYE PROTECTION:	Wear splash goggles or face shield when handling.
OTHER PROTECTIVE EQUIPMENT:	Long sleeved shirt, long pants, socks and shoes

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Amber liquid, amine odor
SOLUBILITY IN WATER:	100% in water
BOILING POINT (F):	210
VAPOR PRESSURE (mm Hg @ 20 C):	Equal to water
SPECIFIC GRAVITY (H20 = 1):	1.004
pH:	7.5 - 8.5
FREEZING POINT (F):	32
POUNDS PER GALLON:	8.36

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:

2,4-D, MCP, and 2,4-DP each have a relatively short half-life of, on average, 6-9, 5-17, and 10 days, respectively. Phenoxy herbicides are readily degraded into nontoxicological substances by soil microbes and aquatic microorganisms.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Product remaining in original container should be disposed of by securely wrapping original container in several layers of newspaper and discarding in trash.

CONTAINER DISPOSAL:

Do not incinerate or puncture. Replace cap and discard container in trash.

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

HMIS INFORMATION	
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTIVE:	C

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

NFPA INFORMATION	
TOXICITY:	1
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.