

# Riverdale

425 West 194th Street  
Glenwood IL 60425

Emergency Phone (Chemtrec): (800) 424-9300

Information Phone: (800) 345-3330

Date Issued: 2/17/98

Supersedes: 2/ 4/92

Product Code: D145R

MSDS Number: 145-1

MATERIAL SAFETY DATA SHEET:

## Weedestroy AM-40 Amine Salt

### 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    | 47.30%          | DMA Salt of 2,4-D  | 10 mg/ m3<br>(2,4-D Acid) | N/A              |
| Other ingredients including water*                   | *7732-18-5   | 52.70%          | Inert Ingredients  | N/A                       | N/A              |
|  | <b>Total</b> | <b>100.00%</b>  |                    |                           |                  |

### 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 the skin. Repeated or prolonged exposure may cause effects similar to those caused by 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:**

1000 mg/ kg

##### **Acute Dermal LD50:**

1016 mg/ kg

##### **Acute Inhalation LC50:**

> 3.5 mg/ L

##### **Eye Irritation:**

severe irritation (rabbits)

##### **Dermal Irritation:**

minimal irritation

##### **Dermal Sensitization:**

not a sensitizer

#### 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.

**3. FIRST AID MEASURES**

|                           |  |
|---------------------------|--|
| <b>EYE CONTACT:</b>       | Hold eyelids open and flush entire eye with a steady, gentle stream of water for 15 minutes. Get medical attention, preferably an ophthalmologist.   |
| <b>INHALATION:</b>        | Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.  |
| <b>INGESTION:</b>         | Drink promptly a large quantity of milk, egg whites or gelatin solution, or, if these are not available, drink large quantities of water. Get medical attention. Avoid alcohol. Do not induce vomiting or give anything by mouth to an unconscious person. |
| <b>SKIN CONTACT:</b>      | Wash affected area with soap and water. If irritation persists, get medical attention.   |
| <b>NOTE TO PHYSICIAN:</b> | 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**

|  |  |
|--|--|
| <b>FLASH POINT ( F):</b>                     | N/A  |
| <b>FLASH POINT METHOD USED:</b>              | None- aqueous solution   |
| <b>EXTINGUISHING MEDIA:</b>                  | 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.   |
| <b>COMBUSTION PRODUCTS:</b>                  | May include, but are not limited to: hydrogen chloride and nitrogen oxides   |
| <b>SPECIAL FIRE FIGHTING PROCEDURES:</b>     | 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. |
| <b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b> | Drums of product will burst from steam pressure under prolonged fire conditions.<br>See Section 13, REGULATORY INFORMATION, for NFPA ratings.  |

## 5. ACCIDENTAL RELEASE MEASURES

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

Wear the suggested safety equipment when cleaning large spills (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, marked container for proper disposal. Treat the contaminated area with detergent and water. 2,4-D spills are subject to CERLCA (Superfund) reporting requirements. Reportable Quantity (RQ) = approximately 26 gallons of AM-40 Amine.

## 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, rewarm to 40 F, remix thoroughly 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 hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## 7. EXPOSURE CONTROL/PERSONAL PROTECTION

|                                    |   |
|------------------------------------|---|
|                                    | Respiratory protection is not normally required. Use a NIOSH/MSHA approved respirator when directly exposed to mist.                |
| <b>VENTILATION:</b>                | Open ventilation. Reduce all mist with local exhaust.   |
| <b>PROTECTIVE GLOVES:</b>          | Rubber or chemical-resistant gloves (See Precautionary Statements on product label for details.)                                    |
| <b>EYE PROTECTION:</b>             | Wear splash goggles, face shield, or safety glasses with front, brow, and temple protection.  |
| <b>OTHER PROTECTIVE EQUIPMENT:</b> | Long sleeved shirt, long pants, socks and shoes. Persons engaged in open pouring must wear coveralls or a chemical resistant apron. |

## 8. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                                    |
|---------------------------------------|------------------------------------|
| <b>APPEARANCE AND ODOR:</b>           | Dark brown liquid, mild amine odor |
| <b>SOLUBILITY IN WATER:</b>           | Infinite in water                  |
| <b>BOILING POINT ( F ):</b>           | > 212                              |
| <b>VAPOR PRESSURE (mm Hg @ 20 C):</b> | N/D                                |
| <b>SPECIFIC GRAVITY (H2O = 1):</b>    | 1.161                              |
| <b>pH:</b>                            | 7.5 - 8.5                          |
| <b>FREEZING POINT ( F ):</b>          | 32                                 |
| <b>POUNDS PER GALLON:</b>             | 9.60                               |

## 9. STABILITY AND REACTIVITY

|                             |                           |
|-----------------------------|---------------------------|
| <b>STABILITY:</b>           | Stable                    |
| <b>CONDITIONS TO AVOID:</b> | Avoid heat conditions     |
| <b>INCOMPATIBILITY:</b>     | Strong oxidizers or acids |

**HAZARDOUS BYPRODUCTS:**None  
Will Not Occur**10. ECOLOGICAL INFORMATION****ENVIRONMENTAL FATE:**

2,4-D has a relatively short half-life (on average 6-9 days in soil, 6-7 in grass) and is readily degraded into nontoxicological substances by soil microbes and aquatic microorganisms. Research has shown that 2,4-D does not bioaccumulate to any significant degree in mammals or in other organisms.

**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:**

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**

|                              |   |
|------------------------------|---|
|                              | 30 Gal, 55 Gal, 220 Gal, 260 Gal, Tank Truck<br>(All smaller container sizes are not DOT regulated) |
| <b>HAZARD CLASS:</b>         | 9   |
| <b>UN NUMBER:</b>            | UN 3082   |
| <b>PACKING GROUP:</b>        | III   |
| <b>GUIDE NUMBER:</b>         | 171   |
| <b>PROPER SHIPPING NAME:</b> | RQ Environmentally Hazardous Substances, Liquid, N.O.S. (2,4-D Salt)                                |

**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 26 gallons of AM-40. 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:

N/A

| <b>HMIS INFORMATION</b> |          |
|-------------------------|----------|
| <b>HEALTH:</b>          | <b>2</b> |
| <b>FLAMMABILITY:</b>    | <b>1</b> |
| <b>REACTIVITY:</b>      | <b>0</b> |
| <b>PROTECTIVE:</b>      | <b>D</b> |

| <b>NFPA INFORMATION</b> |          |
|-------------------------|----------|
| <b>TOXICITY:</b>        | <b>2</b> |
| <b>FIRE:</b>            | <b>1</b> |
| <b>REACTIVITY:</b>      | <b>0</b> |
| <b>SPECIAL:</b>         | <b>N</b> |

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