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

Information Phone: (800) 345-3330

Date Issued: 9/ 3/97

Supersedes: 3/29/95

Product Code: H265R

MSDS Number: 265-1

MATERIAL SAFETY DATA SHEET:

Dissolve

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	46.96%	DMA Salt of 2,4-D	10 mg/m ³ (2,4-D Acid)	NA
Dimethylamine Salt of 2-(2-Methyl-4-Chlorophenoxy) propionic Acid	32351-70-5	24.20%	DMA Salt of MCPP	N/A	N/A
Dimethylamine Salt of 2-(2,4-Dichlorophenoxy)propionic Acid	53404-32-3	23.84%	DMA Salt 2,4-DP	N/A	N/A
Water and Sequesterents	N/A	5.00%	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 EXPOSURE: Nonspecific: muscle weakness, lethargy, loss of appetite, abdominal pains, headache, or shortness of breath.

ACUTE HEALTH EFFECTS

Inhalation: Avoid inhaling dust 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: Moderate to low oral toxicity. 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: 406.1 mg/ kg (male rats) ; 535.9 mg/ kg (female rats)
Acute Dermal LD50: > 200 mg/ kg (rabbits)
Acute Inhalation LC50: no mortality at > 5.0 mg/ l (rabbits)

Eye Irritation: severe irritation (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 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 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 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 affected area with soap and water. If irritation persists, get medical attention.
NOTE TO PHYSICIAN:	Treat symptomatically.

4. FIRE FIGHTING MEASURES

FLASH POINT (F):	N/A
FLASH POINT METHOD USED:	None- dry powder, does not flash
EXTINGUISHING MEDIA:	Use dry chemical, CO ₂ , or foam if available, water will dissolve and spread product.
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 See Section 13, REGULATORY INFORMATION, for NFPA rating.

5. ACCIDENTAL RELEASE MEASURES

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

If water soluble bags are damaged, sweep up all spilled material and place in a closed, labeled container for proper disposal. Soak up spilled solution with an inert absorbent such as clay granules. Contain in a closed, marked container for proper disposal. Spills are subject to CERLCA (Superfund) reporting requirements: Reportable Quantity (RQ): 256 lbs of Dissolve.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Always store pesticides in a secured warehouse or storage building. This product should be stored in a cool, dry location. Do not store near seeds, fertilizers, insecticides or fungicides. Containers should be opened in a well-ventilated area. 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:

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

VENTILATION:

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:

Long sleeved shirt and pants, socks and chemical resistant footwear, and chemical resistant apron when cleaning equipment, mixing, or loading. Follow Precautionary Statements on label.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Dark brown powder, slight amine odor.

SOLUBILITY IN WATER:

100% in water

SPECIFIC GRAVITY:

N/A

pH:

7.5 - 8.5

FREEZING POINT (F):

N/A

BULK DENSITY:

35 lbs/ cubic foot

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

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 nontoxic substances by soil microbes and aquatic microorganisms.

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 256 lbs of Dissolve. 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

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.