



# Safety Data Sheet

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## 1. Identification

**Product Name** : WEED-RHAP A-4D  
**Synonyms** : 2,4-D, Dimethylamine Salt  
**Product Use** : 2,4-D Amine Herbicide  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Danger  
**Skin Irritation** : Causes mild skin irritation.  
**Eye Irritation** : Causes serious eye damage.  
**Acute Toxicity Oral** : LD50 1,150 mg/kg (rat)  
**Acute Toxicity Dermal** : LD50 >2,000 mg/kg (rat)

**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/3

**Hazard Statement** : Harmful if swallowed  
May be harmful in contact with skin  
Causes serious eye damage  
Causes mild skin irritation  
May be harmful if inhaled

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	2008-39-1	46.70
Water and inert formulation aids.	Proprietary	53.30

## 4. First Aid Measures

**Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

**Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation** : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion** : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Probable mucosal damage may contraindicate the use of gastric lavage. In the event of an adverse response, treatment should be directed toward control of the symptoms.

## 5. Fire Fighting Measures



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- Extinguishing Media** : Use appropriate extinguishing media for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Thermal decomposition products may be harmful. These may include hydrogen chloride and nitrogen oxide.
- Special Fire Fight Proc** : Wear positive pressure, self-contained breathing apparatus and full protective clothing. Dike area to prevent chemical runoff. Stay upwind and fight fire at a safe distance.

### 6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike and contain spilled material. Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.
- Methods and Materials for Containment and Cleanup** : Absorb spilled liquid on an inert material, such as clay, sand or sawdust. Place collected material and absorbent in a chemical waste container for proper disposal. Decontaminate spill area with water, detergent and ammonia-based cleaner; absorb wash material and place in waste container for disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate water, food or feed by storage, handling or disposal.
- Conditions for Safe Storage** : Protect from freezing. If stored below 32 Degrees F. and crystals form, warm to 72 Degrees F. for 24 hours, periodically rolling container to reconstitute.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : 2,4-D: TLV=10 mg/m<sup>3</sup>; PEL=10 mg/m<sup>3</sup>
- Appropriate Engineering Controls** : Local exhaust sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Clear brown liquid with phenolic odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : Not established
- Melting Point(Freezing point), °C** : Not applicable
- Vapor Pressure, mm Hg @ 20 °C** : No information found
- Vapor Density** : No information found
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.159-1.179
- Evaporation Rate(Butyl Acetate = 1)** : No information found
- Octanol/Water Partition Coefficient** : No information found
- pH** : 5.5 to 7.0
- Flammable Limits (approximate volume % in air)** : No information found
- Auto-ignition Temperature** : Not determined
- Decomposition temperature** : No information found



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### 10. Stability and Reactivity

- Reactivity** : No information found  
**Chemical Stability** : Stable  
**Hazardous Decomposition Products** : May produce hydrochloric acid, sulfur dioxide, hydrogen sulfide aldehydes and oxides of carbon under fire conditions.  
**Hazardous Polymerization** : Will not occur  
**Conditions to Avoid** : None currently known  
**Incompatible Materials** : Avoid contact with acids and oxidizing materials.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 1,150 mg/kg (rat). Harmful if swallowed.  
**Acute Toxicity (Dermal LD50)** : >2,000 mg/kg. May be harmful in contact with skin.  
**Acute Toxicity Inhalation LC50** : No LC50 available. May be harmful if inhaled.  
**Likely Routes of Exposure** : Eyes, skin, ingestion, inhalation.  
**Skin Irritation** : Causes mild skin irritation.  
**Eye Irritation** : Corrosive to eyes. Two of three test subjects showed corneal opacity that did not clear by day 21. One of three showed redness in the conjunctivae that did not clear by day 21. Causes serious eye damage.  
**Skin Sensitization** : Not listed as a skin sensitizer.  
**Carcinogenic** : Not currently listed by OSHA. IARC: 2,4-D is classified Group 2B, possibly carcinogenic to humans.  
**Chronic Effects** : In animals, effects have been reported on the following organs: liver, kidney, eye, thyroid.  
**Other Hazards** : Various animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer.

### 12. Ecological Information

- Ecotoxicity** : Moderately toxic to aquatic organisms on an acute basis. Moderately toxic to birds on an acute basis.  
**Persistence and Degradability** : Readily biodegradable.  
**Bioaccumulative Potential** : Bioconcentration potential for 2,4-D is low.  
**Mobility in Soil** : Potential for mobility in soil is very high.  
**Other Adverse Effects** : No information available.

### 13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act. (D016 TCLP)

### 14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT in containers <26.3 gallons, see note below.  
**Transport Hazard Class** : None  
**UN Identification Number** : None  
**Packaging Group** : None  
**Environmental Hazards** : Not listed as a Marine Pollutant per 49 CFR 172.101, Appendix B.



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- Transport in Bulk** : If shipped in single package  $\geq$  26.3 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D Acid), 9, PG III "ERG # 171"
- Special Precautions for Transportation** : Reportable quantity (RQ) for 2,4-D acid = 100 lbs/26.3 gallons.
- Freight Classification** : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

## 15. Regulatory Information

**National Fire Protection Association Rating** :

Health: 2      Fire: 1      Reactivity: 1  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No)** :

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: Y  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

**FIFRA Information** : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Registration Number** : 5905-501

**FIFRA Signal Word** : Danger

**FIFRA Label Statement** : Corrosive. Causes irreversible eye damage.

**FIFRA Label Statement** : Harmful if swallowed or absorbed through skin.

**FIFRA Label Statement** : Do not get in eyes or on clothing.

**FIFRA Label Statement** : Wash thoroughly with soap and water after handling.

**FIFRA Label Statement** : Avoid contact with skin.

**FIFRA Label Statement** : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**FIFRA Label Statement** : No additional label statements.

## 16. Other Information

**Data of Preparation/Revision** : 25-January-2017