

# SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



## 1. IDENTIFICATION

**PRODUCT NAME:** 2,4-D Amine 4  
**DESCRIPTION:** A liquid herbicide.  
**EPA Reg. No.:** 83520-13

**COMPANY IDENTIFICATION:**  
Tacoma Ag, LLC  
PO Box 14073  
Durham, NC 27713

## 2. HAZARD IDENTIFICATION



### DANGER

Causes serious eye damage  
Harmful if swallowed  
Harmful if inhaled

Harmful in contact with skin

Toxic to aquatic life

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
2,4-D Amine	Dimethylamine Salt of 2,4-dichlorophenoxyacetic acid	2008-39-1	47.2%

## 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, contact the National Pesticide Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time or your poison control center at 1-800-222-1222, day or night for emergency medical treatment information.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Immediately call a doctor or poison control center.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes. Call a doctor or poison control center if you feel unwell.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a doctor or poison control center if you feel unwell.

**IF SWALLOWED:** Immediately call a poison control center or doctor. Rinse mouth out and have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIREFIGHTING MEASURES

**Flash Point:** Not flammable.

**Flammable Limits:** Not determined

**Fire and Explosion Hazards:** Thermal decomposition during a fire can produce fumes and irritating gases.

**Extinguishing Medium:** Water spray, dry foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff.

**Hazardous Combustion Products:** Hydrogen chloride and nitrogen oxides.

**NFPA Ratings:** Health – 3 / Flammability – 1 / Reactivity - 0

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this SDS. Isolate hazard area. Keep unnecessary personnel from entering.

**Small Spills:** Contain small spill by diking with a suitable absorbent material. Sweep up absorbed spill and place material in appropriate recovery drums for disposal.

**Large Spills:** Contain large spill by diking with a suitable absorbent material and recover for disposal. After removal, neutralize the spill area, tools, and equipment with a dilute alkaline solution (soda ash or lime) followed by an appropriate alcohol (methanol, ethanol or isopropanol). Wash the spill area, tools, and equipment with strong soap and water solution. Absorb any excess liquid and add to the recovery drums of waste already collected. Dispose all wastes as described in Section 13.

## 7. HANDLING AND STORAGE

**Handling:** Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**Storage:** Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Protective Clothing:** Wear coveralls or long-sleeved uniform, head covering, socks, and chemical resistant shoes. Remove contaminated clothing and wash before rewearing. Wear safety goggles or full face shield and chemical-resistant gloves made of nitrile rubber or butyl rubber  $\geq 14$  mils. Refer to the product label for specific instructions.

When handling in enclosed areas where exposure limits may be exceeded, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Discard clothing and other absorbent materials that have been heavily contaminated with this products. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Transparent amber liquid  
**Odor:** Amine odor  
**pH:** 9.05 (1% in water)  
**Viscosity:** 9.99 cps @ 25°C; 5.80 cps @ 40°C  
**Density:** 1.160 gm/cm<sup>3</sup> @ 25°C; 1.150 @ 40°C  
**Solubility:** Miscible

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Excessive heat and fire.  
**CHEMICAL STABILITY:** Stable under all normal use and storage conditions. May decompose if heated.  
**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong oxidizing agents and acids.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride and oxides of nitrogen.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD<sub>50</sub>):** > 1,000 mg/kg  
**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 1,500 mg/kg  
**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 3.0 mg/L (4-hour)  
**EYE IRRITATION:** Severely irritating  
**SKIN IRRITATION:** Slightly irritating  
**SKIN SENSITIZATION:** Not a contact sensitizer  
**CARCINOGENICITY:**  
**EPA:** Not Listed  
**ACGIH:** Not Listed  
**IARC:** 2B (chlorophenoxy herbicides)  
**NTP:** Not Listed  
**OSHA:** Not Listed  
**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.  
**REPRODUCTIVE TOXICITY:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

This product is toxic to fish and aquatic invertebrates. Practically non-toxic to birds and honey bees. This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**The following is for the active ingredient, 2,4-D Amine:**

### AQUATIC TOXICITY

Bluegill (96-hr LC<sub>50</sub>): 524 mg/L  
Rainbow Trout (96-hr LC<sub>50</sub>): 250 mg/L  
Daphnia (48-hr EC<sub>50</sub>): 184 mg/L

### AVIAN TOXICITY

Bobwhite Quail (Oral LD<sub>50</sub>): 500 mg/kg  
Mallard Duck (8-day Dietary LC<sub>50</sub>): > 5,620 ppm

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

## 14. TRANSPORT INFORMATION

### US DOT:

DOT Shipping Name: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (2,4-Dichlorophenoxyacetic Acid), 9, PG III  
Reportable Quantity (RQ): 100 lbs. (26.3 gallons of product)  
DOT Emergency Response Guide: 171  
Marine Pollutant: Yes

## 15. REGULATORY INFORMATION

### FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling 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. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: Corrosive.** Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes or on clothing. Avoid breathing vapor or spray mist. Wash hands and before eating, drinking, chewing gum, using tobacco, or using the toilet. When handling this product, wear eye protection goggles, face shield, or safety glasses), long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves (except for applicators using groundboom equipment, pilots and flaggers) and chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. For terrestrial uses: Do not apply directly to water, to areas where surface water is present, or to intertidal area below the mean high water mark. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas, and non-target plants. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

## 15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

### **SARA Title III – Section 302 Extremely Hazardous Substances**

Not listed

### **SARA Title III – Section 311/312 Hazard Categories**

Immediate, Delayed

### **SARA Title III – Section 312 Threshold Planning Quantity**

N/A

### **SARA Title III – Section 313 Reportable Ingredients**

2,4-Dichlorophenoxyacetic Acetic Acid (CAS No. 94-75-7): 47.2%

### **CERCLA Reportable Quantity (RQ) –**

2,4-Dichlorophenoxyacetic Acetic Acid (CAS No. 94-75-7): 100 lbs. (26.3 gallons of product)

### **CALIFORNIA PROP 65 STATUS –**

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

### **CANADA –**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

DISCLAIMER: The information herein is presented in good faith and believed to be accurate as on the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, State and Local laws and regulations.

SDS Version: 3.0 (conversion from MSDS)

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