

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**FORMULATED FOR:**

VERDICON  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** CHASER® 2 AMINE  
**CHEMICAL NAME:** 2,4-Dichlorophenoxyacetic acid, dimethylamine salt and Triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid, triethylamine salt  
**CHEMICAL FAMILY:** Phenoxy Herbicide  
**EPA REG. NO.:** 228-316-65783  
**MSDS Number:** 228316-04b-VER      **MSDS Revisions:** See section 16      **Date Of Issue:** 07/13/04      **Supersedes:** 03/05/04

**2. HAZARDS IDENTIFICATION SUMMARY**

**KEEP OUT OF REACH OF CHILDREN - DANGER – PELIGRO - Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail.)** Corrosive. Causes irreversible eye damage. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or on clothing.

This product is a clear amber liquid with mild amine odor.

**3. COMPOSITION, INFORMATION ON INGREDIENTS**

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
2,4-D, dimethylamine salt*	34.20	2008-39-1	10 mg/m <sup>3</sup>
Triclopyr, triethylamine salt**	15.20	57213-69-1	none established
Inert Ingredients, including Unreacted triethylamine	50.60	121-44-8	none established

**4. FIRST AID MEASURES**

**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. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

**If inhaled:** 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.

**Note to Physician:** Probable mucosal damage may contraindicate use of gastric lavage.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT (°F/Test Method):** >202°F/>94.4°C (Seta flash)  
**FLAMMABLE LIMITS (LFL & UFL):** Not established  
**EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** May include but are not limited to hydrogen chloride and oxides of nitrogen.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers of product will burst from steam pressure under prolonged fire conditions.

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**  
Avoid breathing vapors. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.  
**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

**HANDLING:** Wash hands after handling, and 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.  
**STORAGE:** Store above 28°F/-2.2°C or agitate before use. Do not contaminate water, food, or feed by storage or disposal.

**Personal Protective Equipment (PPE): Applicators and other handlers must wear:** long sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear. **For containers over 1 gallon, but less than 5 gallons:** Mixers and loaders who do not use a mechanical system (such as probe and pump) to transfer contents of the container must wear coveralls or a chemical-resistant apron in addition to other required PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** **For containers of 5 gallons or more:** A mechanical system (such as probe and pump) must be used for transferring the contents of the container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**RESPIRATORY PROTECTION:** Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear waterproof gloves.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
2,4-D Acid	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Clear amber liquid with mild amine odor

**SPECIFIC GRAVITY (Water = 1):** 1.173 g/ml

**VAPOR PRESSURE:** Not established

**PERCENT VOLATILE (by volume):** Not established

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**BULK DENSITY:** 9.79 lbs/gal

**BOILING POINT:** 178°F/81.1°C

**EVAPORATION RATE:** Not established

**SOLUBILITY:** Soluble

**pH:** 7.5-8.5

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable

**INCOMPATIBILITY:** Strong oxidizers or acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen oxide and hydrogen chloride may be formed under fire conditions.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Avoid heat conditions.

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub> (male rat):** 1576 mg/kg

**Eye Irritation (rabbit):** Severe irritation with possible permanent corneal injury

**Acute Inhalation LC<sub>50</sub> (rat):** >2.0 mg/L.

**Carcinogenic Potential:** ACGIH (TLV-A4) lists 2,4-D Acid as not classifiable as a human carcinogen; IARC (2B) lists 2,4-D Acid as possibly carcinogenic to humans. Not listed in OSHA or NTP.

**Acute Dermal LD<sub>50</sub> (male rabbit):** 1744 mg/kg

**Skin Irritation (rabbit):** Severe irritation with prolonged exposure

**Skin Sensitization (guinea pig):** Not established

## 12. ECOLOGICAL INFORMATION

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

## 13. DISPOSAL CONSIDERATIONS

Do not reuse containers. **Plastic Containers:** Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned stay out of smoke. **Metal Containers:** Triple rinse (or equivalent). Then offer for recycling, or puncture and dispose in a sanitary landfill. Consult federal, state, or local disposal authorities for approved alternative procedures. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. Do not contaminate water, food, or feed by storage or disposal.

## 14. TRANSPORT INFORMATION

**DOT Shipping Description:** **LESS THAN 36 GALLONS:** NOT REGULATED BY USDOT FOR SURFACE TRANSPORTATION.  
**36 GALLONS AND GREATER:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D), 9, UN3082, III, MARINE POLLUTANT ERG GUIDE 171

**U.S. Surface Freight Classification:** COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2:CLASS: 60)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	3 Health	0 Least	3 Health
	1 Flammability	1 Slight	1 Flammability
	1 Instability	2 Moderate	1 Reactivity
		3 High	J PPE
		4 Severe	

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>Y</u>	Reactive	<u>N</u>		

**Reportable Quantity (RQ) under U.S. CERCLA:** 2,4-D Acid (CAS: 94-75-7) 100 lbs  
**SARA, Title III, Section 313:** 2,4-D Acid (CAS: 94-74-7) 28.4%; Triethylamine salt of Triclopyr (CAS: 57213-69-1) 15.2%  
**RCRA Waste Code:** Not listed  
**CA Proposition 65:** Not listed

**16. OTHER INFORMATION**

**MSDS STATUS:** Format modified to address changes in ANSI Standard Z400.1-2004

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

*®Chaser is a registered trademark of Platte Chemical Company*

*\*2,4-D Acid equivalent: 28.4%; 2.78 lb/gal.*

*\*\*Triclopyr acid equivalent: 10.9%; 1.07 lb/gal.*

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