

MATERIAL SAFETY DATA SHEET

CHASER® ULTRA² SELECTIVE HERBICIDE

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, INC.
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® ULTRA² SELECTIVE HERBICIDE

CHEMICAL NAME: MCPA: 2-Methyl-4-Chlorophenoxyacetic acid, dimethylamine salt; 1-Methylheptyl Ester of Fluroxypyr: ((4-amino-3-5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic Acid, 1-methylheptyl Ester; Dichlorprop-P: (+)-R-2-(2,4-Dichlorophenoxy) propionic acid, dimethylamine salt

CHEMICAL FAMILY: Herbicide

EPA REG. NO.: 228-449-65783

MSDS Number: 228449-05b-VER

MSDS Revisions: Section 9

Date Of Issue: 07/26/05

Supersedes: 06/10/05

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – DANGER - PELIGRO: Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. **Eye Contact:** This product causes irreversible eye damage. Vapors and mists can cause irritation. **Skin contact:** This product is slightly irritating. Overexposure by skin absorption may cause symptoms similar to those for ingestion. **Ingestion:** This product is harmful if swallowed. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation, weakness, and central nervous system depression. **Inhalation:** This product has low inhalation toxicity. **Medical Conditions Aggravated by Exposure:** Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. This product is amber-colored liquid with mild ester-like odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
MCPA, dimethylamine salt*	41.60	2039-46-5	none established
1-Methylheptyl Ester of Fluroxypyr**	4.90	81406-37-3	none established
Dichlorprop-P, dimethylamine salt***	8.10	53404-32-3	none established
Other Ingredients, including:	45.40		
Aromatic Hydrocarbon		94742-94-5	none established
Contains Naphthalene		91-20-3	10 ppm (Skin)

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 person sip a glass of water if able to do so. 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the 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): >230.0°F / >110.0°C (Setaflash)

FLAMMABLE LIMITS (LFL & UFL): Not established

EXTINGUISHING MEDIA: Dry chemical or carbon dioxide for small fires. Foam or water spray recommended for large fires.

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to hydrogen chloride and oxides of nitrogen and carbon.

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: If water is used to fight fire, contain runoff, by using dikes to prevent contamination of water supplies.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and place in a chemical waste container. Flush residual spill area with water. Large spills that soak into the ground should be dug up, placed in metal drums and disposed of in accordance with instructions provided under DISPOSAL, Section 13 of this MSDS. Contact appropriate state agency when considering a land spreading disposal option. Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under DISPOSAL, Section 13 of this MSDS. Any recovered spilled liquid should be similarly collected and disposed of. 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: Do not get in eyes, on skin or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses). 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 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 at temperatures above 25°F (-3.9°C). If allowed to freeze, remix before using. Freezing will not affect the product. Containers should be opened in well-ventilated areas. Keep container tightly closed when not in use. Do not contaminate water, food, or feed by storage or disposal.

Personal Protective Equipment: Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks and protective eyewear. 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 such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: 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 NIOSH approved pesticide respirator.

EYE PROTECTION: Chemical goggles or shielded safety glasses. An emergency eyewash should be readily accessible in the work area.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves. An emergency shower should be readily accessible in the work area.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Naphthalene	10 ppm	10 ppm (Skin) STEL: 15 ppm (Skin)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Amber-colored liquid with mild ester-like odor

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

VAPOR PRESSURE: Not established

PERCENT VOLATILE (by volume): Not established

FREEZING POINT: 25°F (-3.9°C)

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.

SOLUBILITY: Soluble

pH: 8.4 (1% solution)

BULK DENSITY: 9.789 lbs/gal.

BOILING POINT: Not established

EVAPORATION RATE: Not established

VISCOSITY: 51.9 cP @ 25°C

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat, open flame, other ignition sources.

INCOMPATIBILITY: Strong oxidizing agents: acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Under fire conditions hydrogen chloride and oxides of nitrogen and carbon may be produced.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (female rat): 1030 mg/kg; FIFRA Category III

Eye Irritation (rabbit): Severely irritating; FIFRA Category I

Inhalation LC₅₀ (rat): >2.03 mg/L (4-hr); FIFRA Category IV

Carcinogenic Potential: None listed in OSHA, **NTP, IARC or ACGIH

Acute Dermal LD₅₀ (rat): >2000 - >5000 mg/kg; FIFRA Category III

Skin Irritation (rabbit): Slightly irritating; FIFRA Category IV

Skin sensitization (guinea pig): Not a sensitizer

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Pesticide wastes are acutely hazardous. Improper disposal is a violation of Federal law.

Container Disposal: Do not reuse container. Triple rinse (or equivalent), adding rinse water to spray tank, 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 by burning. If burned, stay out of smoke..

Container Disposal for Refillable Containers: After use, close all openings that have been opened during use and replace all caps. Return the container to the point of purchase or other designated locations for return of the empty refillable container. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT

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

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	2 Health	0 Least	2 Health
	1 Flammability	1 Slight	1 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
 Delayed Y Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Naphthalene (CAS: 91-20-3) 100 pounds

SARA, Title III, Section 313: Naphthalene (CAS: 91-20-3), 0.20% by weight in product

RCRA Waste Code: U165 (Naphthalene)

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER

MSDS STATUS: Revised section 9

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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