

MATERIAL SAFETY DATA SHEET

CHASER® TURF 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:

LOVELAND PRODUCTS, INC.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-866-944-8565
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: CHASER® TURF HERBICIDE
CHEMICAL NAME: 2,4-Dichlorophenoxyacetic acid, butoxyethyl ester and Triclopyr; 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester
CHEMICAL FAMILY: Phenoxy Herbicide
EPA REG. NO.: 34704-928
MSDS Number: 000928-12-LPI MSDS Revisions: Sections 14, 15 Date of Issue: 12/12/12 Supersedes: 05/22/09

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - PRECAUCION - 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.) Harmful if swallowed. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

This product is a reddish brown-colored liquid with sweet odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
2,4-D, butoxyethyl ester*	34.40	1929-73-3	10 mg/m ³
Triclopyr, butoxyethyl ester**	16.50	64700-58-7	none established
Inert Ingredients, including Kerosene	49.10	8008-20-6	200 mg/m ³ (Skin)

4. FIRST AID MEASURES

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565. 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): 148°F/64.4°C (Seta flash)
FLAMMABLE LIMITS (LFL & UFL): Not established
EXTINGUISHING MEDIA: Considered combustible, 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 oxides of carbon, hydrogen chloride, phosgene 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: None known.

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. See section 8 for PPE. Keep away from children.
STORAGE: Store above 10°F / -12.2°C. Do not use or store near heat or open flames. 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 and socks, chemical resistant gloves when applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate, chemical resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate, and protective eyewear. 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: When handlers use enclosed cabs in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4-8)], 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, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
2,4-D Acid	10 mg/m ³	10 mg/m ³
Kerosene	not listed	200 mg/m ³ (Skin) (P) ^x

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Reddish brown-colored liquid with sweet odor	SOLUBILITY: Soluble
SPECIFIC GRAVITY (Water = 1): 1.013 g/ml	pH: Not established
BULK DENSITY: 8.45 lbs/gal	
VAPOR PRESSURE: 0.1 mm @ 37.8°C (Kerosene)	BOILING POINT: > 347°F/176°C (Kerosene)
PERCENT VOLATILE (by volume): Not established	EVAPORATION RATE: 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.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid temperatures above or near flashpoint.

INCOMPATIBILITY: Acids, alkalis (bases) and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: If burned, noxious fumes, nitrogen oxide, hydrogen chloride and phosgene may be formed under fire conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): >2300 mg/kg	Acute Dermal LD₅₀ (rabbit): >2000 mg/kg
Eye Irritation (rabbit): May cause moderate irritation	Skin Irritation (rabbit): May cause slight irritation
Acute Inhalation LC₅₀ (rat): >5 mg/L	Skin Sensitization (guinea pig): Not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH	

12. ECOLOGICAL INFORMATION

This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. 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 this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrcycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. (For packages equal to or less than 5 gallons:) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. (For packages with capacities greater than 5 gallons or 50 lbs.) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Do not contaminate water, food, or feed by storage or disposal.

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14. TRANSPORT INFORMATION

DOT Shipping Description: LESS THAN 50 GALLONS: NOT REGULATED BY DOT.

DOT Shipping Description: 50 GALLONS AND GREATER: RQ UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D), 9, III, ERG GUIDE 171

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
	2 Flammability	1 Slight	2 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate	<u>Y</u>	Fire	<u>Y</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 butoxyethyl ester (CAS: 1929-73-3) 100 lbs

SARA, Title III, Section 313: 2,4-D butoxyethyl ester (CAS: 1929-73-3) 34.4%

RCRA Waste Code: Not listed

CA Proposition 65: Not listed

CAUTION -- This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals.

16. OTHER INFORMATION

MSDS STATUS: Sections 14 and 15 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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*2,4-D Acid equivalent: 23.7%; 2 lb/gal.

**Triclopyr acid equivalent: 11.9%; 1 lb/gal.

^x(P): Avoid prolonged and repeated skin contact which can lead to diesel fuels dermal irritation and may be associated with an increased risk of skin cancer.

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such material in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.



GROUP 4 HERBICIDE

Chaser®

Turf Herbicide

To be applied only under the direct supervision of Commercial applicators responsible for turf weed control programs.

Weed Killer

For the control of annual and perennial broadleaf weeds in residential, commercial, and recreational turf and commercial sod.

ACTIVE INGREDIENT(S):

2,4-dichlorophenoxyacetic acid, butoxyethyl ester †	34.4%
triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester	16.5%
OTHER INGREDIENT(S)*:	49.1%
TOTAL	100.0%

*Contains Petroleum Distillates

Acid Equivalents:

2,4-dichlorophenoxyacetic acid - 23.7% - 2.0 pounds per gallon
 triclopyr - 11.9% - 1.0 pound per gallon

† Isomer Specific by AOAC Method No. 978.05 (15th Ed.)

**KEEP OUT OF REACH OF CHILDREN
 CAUTION—PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

For Additional Precautionary Statements, Complete First Aid, Directions for Use, Storage and Disposal and Other Use Information, See Inside This Label Booklet.

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • 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.
If in eyes:	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</p>	

EPA REG. NO. 34704-928

EPA EST. NO. 34704-MT-001

NET CONTENTS 2.5 GALS (9.46 L)

050417 V1D 05R17

CHASER® TURF HERBICIDE
EPA REG. NO. 34704-928

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation.

Harmful if Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Skin Reactions in Some Individuals

Personal Protective Equipment (PPE)

All mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes and socks,
- Chemical resistant gloves barrier laminate or viton ≥ 14 mils, except for pilots.
- Chemical resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate, and
- Protective eyewear.

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.

See engineering controls for additional requirements.

Engineering Controls:

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store the product near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls,
- Chemical-resistant gloves made of barrier laminate or viton \geq 14 mils,
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Restricted Entry Interval: For use on residential and other turf sites (excluding sod farms and turf grown for seed), do not enter or allow people (or pets) to enter the treated area until sprays have dried.

PRODUCT INFORMATION

Apply foliage sprays during warm weather when weeds are actively growing. Application under drought conditions may provide less than desirable results. Use low spray pressures to minimize spray drift. Read and follow all use precautions, restrictions and directions given on this label.

PRODUCT RESTRICTIONS

Apply this product only as specified on this label.

Do not contact nearby susceptible crops or other desirable plants and do not contaminate water intended for irrigation or domestic use.

Be sure that use of this product conforms to all applicable regulations.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for Injunctive relief in Washington Toxics Coalition, et al. v. EPA, CO1-01320, (W.D. WA). For further information, please refer to <http://www.epa.gov/esp/wtc/>.

In Arizona: The state of Arizona has not approved Chaser® Turf Herbicide for use on sod farms.

For ground application only.

Chemigation: Do not apply this product through any type of irrigation system.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not apply Chaser Turf Herbicide directly to, or otherwise permit it to come into direct contact with cotton, grapes, tobacco, vegetable crops, flowers, fruit or ornamental trees, or other desirable broadleaf plants and do not permit spray mists containing it to drift onto them.

Do not apply to exposed roots of shallow rooted trees or shrubs.

PRODUCT PRECAUTIONS

The combination of spray contact with impervious surfaces, such as roads and rocks, and increasing ambient air temperatures, may result in an increase in the volatility potential for this herbicide, increasing a risk for off-target injury to sensitive crops such as grapes and tomatoes.

In handgun applications, drift can be reduced by using low pressure TeeJet® flat fan, rainfall, or other drift controlling nozzles. Standard flat fan nozzles may also be used at no more than 20 psi. At this pressure, the spray pattern may be narrower.

At high temperatures, vapors from this product may injure susceptible crops growing nearby. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination and plant growth.

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Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (follage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. The boom length must not exceed 75% of the wingspan or 90% of the rotor-blade diameter. For ground boom application, do not apply with a nozzle height greater than 4 feet above the crop canopy.

ADJUVANT USE When an adjuvant is to be used with this product Loveland Products, Inc. recommends using LI 700®. For drift control and defoaming the use of Compadre® at 0.125% v/v is recommended.

WEEDS CONTROLLED

Black medick	Creeping beggarweed	Plantain
Bull thistle (a)	Dandelion	Poison ivy
Burdock (a)	Docks	Poison oak
Buttercup (a)	Dwarf beggarweed	Prostrate spurge (b)
Canada thistle (a)	Field bindweed	Purslane speedwell
Catnip	Goldenrod	Smartweed
Chamise	Ground ivy (b)	Sowthistle
Chickweeds (common and mouseear)	Henbit	Spiderwort
Chicory	Knawel	Spotted cistear
Cinquefoil	Lambsquarters	Vetch
Clovers	Lespedeza	Wild carrot (a)
Cocklebur	Matchweed	Wild violet (b)
Cornflower	Mustards (a)	Yarrow
Cornspeedwell (b)	Oxalis (<i>stricta</i> and <i>corniculata</i>) (b)	

(a), (b)—See "Broadcast Treatment of Residential, Commercial, and Recreational Turf and Commercial Sod Farms".

Preparing The Spray: Chaser Turf Herbicide in water forms an emulsion (not a solution), and separation may occur unless the spray mixture is agitated continuously. Fill the spray tank about half full with clean water. Then add the Chaser Turf Herbicide and complete filling the tank with agitation running. Mix thoroughly and continue moderate agitation while spraying.

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LABELED USES

Turf

Broadcast Treatment of Residential, Commercial, and Recreational Turf and Commercial Sod Farms

Apply 1.0 to 2.0 quarts (0.5 to 1.0 pound acid equivalent) of Chaser Turf Herbicide in enough water to make 20.0 to 200 gallons total spray per acre to control broadleaf weeds growing in tall fescue, bluegrass, or perennial ryegrass turf. Do not use on other grass species, such as bentgrass or St. Augustine grass, unless injury can be tolerated. Chaser Turf Herbicide at 3.0 pints per acre (0.75 pound acid equivalent) or 1.1 ounces per 1000 square feet will provide control of most weeds listed. The use of 4.0 pints per acre (1.0 pound acid equivalent or 1.47 ounces per 1000 square feet) is suggested for those followed by (a). Optimum control of those species followed by (b) has been obtained when 2 applications of 3.0 pints per acre (0.75 pound acid equivalent per acre) have been made 4 weeks apart. Apply from early spring through early fall when weeds are growing. Applications should be made 4 weeks apart to minimize grass injury.

Newly seeded turf should be mowed 2 or 3 times before being treated. Do not water for 24 hours after application. Do not reseed for 3 weeks after application.

Broadcast Application Restrictions for Residential, Commercial, and Recreational Turf: Postemergence: Limited to 2 applications per year. Use a maximum of 6.0 pints Chaser Turf Herbicide (1.5 pounds 2,4-D acid equivalent) per acre per application. The maximum seasonal rate is 6.0 quarts Chaser Turf Herbicide per acre (3.0 pounds acid equivalent per acre), from all combined sources.

Broadcast Application Restrictions for Commercial Sod Farms: A maximum of 2.0 quarts of Chaser Turf Herbicide per acre may be applied up to 2 times a year to control a variety of broadleaf weed species which may germinate at different periods. Limited to 2 applications per year. Do not exceed a maximum of 8.0 pints Chaser Turf Herbicide per acre (2.0 pounds acid equivalent per acre) per application. Observe a minimum of 21 days between applications.

Spot Treatment of Residential, Commercial, and Recreational Turf and Commercial Sod Using Portable Sprayers

Spot treatment is defined as a treatment area no greater than 1,000 square feet per acre. Mix 1.0 to 2.0 fluid ounces (0.01 to 0.03 pound acid equivalent) of Chaser Turf Herbicide in enough water to make 3.0 gallons of spray (1.0 to 2.0 quarts per 100 gallons of spray) and apply at any time broadleaf weeds are susceptible by wetting foliage of undesirable plants to point of runoff.

IN CASE OF AN EMERGENCY

In case of an emergency endangering health or the environment involving this product, call 1-866-944-8565.

AGRICULTURAL CHEMICAL

Do not ship or store with food, feeds, drugs, or clothing.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store above 10 °F or agitate before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. 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 HANDLING: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(For packages equal to or less than 5 gallons:) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

(For packages with capacities greater than 5 gallons or 50 pounds) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

**CHASER® TURF HERBICIDE
EPA REG. NO. 34704-928**

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