

MATERIAL SAFETY DATA SHEET

SIGNATURE® WEED & FEED

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: 1-800-301-7976
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: SIGNATURE® WEED & FEED (CONTAINS TRIMEC®)
CHEMICAL NAME: Herbicide (2,4-D: 2,4-dichlorophenoxyacetic acid; Mecoprop-P: (+)-(R)-2-(2 methyl-4-chlorophenoxy)propionic acid; and Dicamba: (3,6-dichloro-o-anisic acid) on N-P-K Fertilizer
CHEMICAL FAMILY: Phenoxy Herbicide – Fertilizer Combination
EPA REG. NO.: 2217-793-34704
MSDS Number: 2217793-06-LPI **MSDS Revisions:** New **Date of Issue:** 10/19/06 **Supersedes:** New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – Harmful if swallowed. Do not inhale dust. Do not allow contact with skin, eyes or clothing. When using this product, wear long-sleeved shirt, long pants, socks and shoes. After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

This product is a light yellow to brown-colored granule with slight aromatic odor. Primary routes of entry are Inhalation, eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS (Note: See Product Label for Guaranteed Analysis)

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
2,4-D	0.62	94-75-7	10 mg/m ³
Mecoprop-P	0.14	16484-77-8	None Established
Dicamba	0.06	1918-00-9	None Established
Fertilizer: see label for N-P-K analysis	99.18		

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 on skin or clothing: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. 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 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 inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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): Not applicable
FLAMMABLE LIMITS (LFL & UFL): Not applicable
EXTINGUISHING MEDIA: Considered non-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, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide.
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: Dusts or vapors can travel to a sources of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing dusts. Sweep up dry 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. As soon as possible after use, wash thoroughly and change into clean clothing.
STORAGE: Store in original container only and keep any bags containing unused product in a locked storage area inaccessible to children and domestic animals. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.
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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Light yellow to brown-colored granules with slight aromatic odor	SOLUBILITY: Insoluble
SPECIFIC GRAVITY (Water = 1): 0.8-1.04 g/ml	BULK DENSITY: 50-65 lbs/ft ³
VAPOR PRESSURE: Not applicable	BOILING POINT: Not applicable
PERCENT VOLATILE (by volume): Not applicable	EVAPORATION RATE: Not applicable

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:** Excessive heat, open flame, other ignition sources.
INCOMPATIBILITY: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: If burned, nitrogen oxides, sulfurous oxides and hydrogen chloride gas may be formed.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): >5050 mg/kg	Acute Dermal LD₅₀ (rabbit): >2010 mg/kg
Eye Irritation (rabbit): May cause moderate irritation	Skin Irritation (rabbit): May cause slight irritation
Inhalation LC₅₀ (rat): Not established	Skin Sensitization (guinea pig): Not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH	

12. ECOLOGICAL INFORMATION

Drift or runoff may adversely affect 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 when disposing of equipment wash water. When cleaning equipment do not pour the wash water on the ground; spray or drain over a large area away from wells and other water sources. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

Do not reuse container. For Paper or Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration or, if allowed by State and local authorities by burning. If burned stay out of smoke. 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: 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:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">NFPA</td> <td style="width: 50%;">HMIS</td> </tr> <tr> <td>1 Health</td> <td>0 Least</td> </tr> <tr> <td>0 Flammability</td> <td>1 Slight</td> </tr> <tr> <td>0 Instability</td> <td>2 Moderate</td> </tr> <tr> <td></td> <td>3 High</td> </tr> </table>	NFPA	HMIS	1 Health	0 Least	0 Flammability	1 Slight	0 Instability	2 Moderate		3 High		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1 Health</td> <td style="width: 50%;">0 Flammability</td> </tr> <tr> <td>0 Flammability</td> <td>0 Reactivity</td> </tr> <tr> <td>H PPE</td> <td></td> </tr> </table>	1 Health	0 Flammability	0 Flammability	0 Reactivity	H PPE	
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SARA Hazard Notification/Reporting
SARA Title III Hazard Category:

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 (CAS: 94-75-7) 100 pounds; Dicamba (CAS: 1918-00-9) 1000 pounds

SARA, Title III, Section 313: 2,4-D (CAS: 94-75-7) 0.62%; Dicamba (CAS: 1918-00-9) 0.06%

RCRA Waste Code: Not listed

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 INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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Note: This material safety data sheet applies to all Signature® Weed & Feed N-P-K analyses.

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