SIGNATURE® FERTILIZER WITH 0.86% PENDIMETHALIN

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

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC 24-Hour Emergency Phone: 1-800-424-9300 P.O. Box 1286 • Greeley, CO 80632-1286 Medical Emergencies: 1-800-301-7976

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

PRODUCT NAME: SIGNATURE® FERTILIZER WITH 0.86% PENDIMETHALIN

CHEMICAL NAME: Herbicide (Pendimethalin); N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine) on N-P-K Fertilizer

CHEMICAL FAMILY: Dinitroaniline Herbicide-Fertilizer Combination

EPA REG. NO.: 34704-832

MSDS Number: 000832-06-LPI MSDS Revisions: New Date of Issue: 10/19/06 Supersedes: New

HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - Si usted entiende la etiquette, busque a alguien para que se la explique a usted en detaile. (If you do not understand this label, find someone to explain it to you in detail.) Causes eye irritation. Avoid contact with skin, eyes, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling. May be harmful if swallowed. Avoid inhalation. Do not contaminate feed or foodstuffs. Do not feed clippings to livestock. Do not graze treated areas.

This product is a multi-colored granule with slight odor.

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

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Pendimethalin	0.86	40487-42-1	None Established
Fertilizer: see label for N-P-K analysis	99.14		

FIRST AID MEASURES

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. 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

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5

minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Take off contaminated clothing. Rinse skin immediately with plenty with plenty of water for 15 to 20 minutes. Call a poison IF ON SKIN: control center or doctor for treatment advice.

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably IF INHALED:

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 container or label with you when calling a poison control center, or doctor, or when going for treatment

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.

Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-SPECIAL FIRE FIGHTING PROCEDURES:

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.

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.

HANDLING AND STORAGE

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing HANDLING:

immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE as soon as possible after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into

clean clothing.

STORAGE: Store in original labeled container in a dry, cool area out of reach of children and pets. Partially used bags should be

sealed by folding down the top and securing. Do not contaminate water, food or feed by storage or disposal.

SIGNATURE® FERTILIZER WITH 0.86% PENDIMETHALIN

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: RESPIRATORY PROTECTION:

Not normally required.

FYF PROTECTION: SKIN PROTECTION: Not normally required, if vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.

Chemical goggles or shielded safety glasses.

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

Nuisance Particulates

15 mg/m³ (total dust)

not listed

Personal Protective Equipment (PPE): Applicators and other handlers must wear: long sleeved shirt and long pants, chemical resistant gloves made of waterproof materials such as butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils, shoes plus socks. 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.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Multi-colored granules with slight odor

BULK DENSITY: 59-60 lbs/ft³ SPECIFIC GRAVITY (Water = 1): 0.96-0.97 g/ml **BOILING POINT:** Not applicable VAPOR PRESSURE: Not applicable

EVAPORATION RATE: Not applicable PERCENT VOLATILE (by volume): Not applicable These physical data are typical values based on material tested but may vary from sample to sample. Note:

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: Caustics, acids, oxidizers, fluorine, metals. HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): (technical material) 1050 mg/kg

Eye Irritation (rabbit): Causes eye irritation Inhalation LC₅₀ (rat): Not established.

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

Acute Dermal LD₅₀ (rabbit): >5000 mg/kg Skin Irritation (rabbit): May cause irritation Skin Sensitization (quinea pig): Not established

SOLUBILITY: Insoluble

pH: Not applicable

12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish. Do not apply directly to water, or to area where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area. Drift or runoff may adversely affect non-target plants.

DISPOSAL CONSIDERATIONS

Do not reuse empty bag. 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. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal.

TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; DRY (NMFC 50320, SUB 5; CLASS 50)

MATERIAL SAFETY DATA SHEET

SIGNATURE® FERTILIZER WITH 0.86% PENDIMETHALIN

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings: NFPA

HMIS

Health Least Health Flammability Slight 0 Flammability 0 Instability Moderate 0 Reactivity High 3 Н PPE

4 Severe

SARA Hazard Notification/Reporting

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

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Pendimethalin (CAS: 40487-42-1): 0.86%

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

®Signature is a registered trademark of Loveland Products, Inc.

REVIEWED BY: Environmental/ Regulatory Services

Note: This material safety data sheet applies to all Signature® N-P-K fertilizer analyses containing 0.86% Pendimethalin.

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 materials 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.