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

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1. 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® DIMENSION* 0.19 PLUS FERTILIZER CHEMICAL NAME: Herbicide (Dithiopyr: 3,5-pyridinecarbothioic acid,2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S dimethyl ester) on N-P-K Fertilizer CHEMICAL FAMILY: Pyridine Herbicide-Fertilizer Combination 62719-488-34704 EPA REG. NO.: MSDS Number: 62719488-06-LPI MSDS Revisions: New Date Of Issue: 10/18/06 Supersedes: New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – Causes eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction in some individuals. This product is a multi-colored granule with slight odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS		(Note: See Product Label for Guaranteed Analysis)			
Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)		
Dithiopyr Fertilizer: see label for N-P-K analy	0.19 vsis 99.81	97886-45-8	None Established		
4. FIRST AID MEASURES					
		ly with water for 15 to 20 minutes. Remove contact son control center or doctor for treatment advice.	ct lenses, if present, after 5		
IF INHALED: Mo	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.				
	uct container or label with you when c)-992-5994 day or night, for emergen	alling a poison control center, or doctor, or wher cy treatment information.	n going for treatment. You may		
5. FIRE FIGHTING MEASU	RES				
FLASH POINT (°F/Test Method):	Not applicable				
FLAMMABLE LIMITS (LFL & UF	L): Not applicable				

	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:	Users should 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 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 this product only in its original labeled container in a dry, cool secured storage area. Do not contaminate water, food or feed by storage or disposal.

EXPOSURE CONTROLS / PERSONAL PROTECTION 8

ENGINEERING CONTROLS: RESPIRATORY PROTECTION:	Not normally required. Not normally required, if vapors or dusts exceed acceptable levels, wear a 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

15 mg/m³ (total dust)

Nuisance Particulates

PHYSICAL AND CHEMICAL PROPERTIES 9

APPEARANCE AND ODOR: Multi-colored granules with slight odor SPECIFIC GRAVITY (Water = 1): 1.0305 g/ml VAPOR PRESSURE: Not applicable PERCENT VOLATILE (by volume): Not applicable

BULK DENSITY: 64.333 lbs/ft³ **BOILING POINT:** Not applicable EVAPORATION RATE: Not applicable SOLUBILITY: Insoluble pH: 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 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 (guinea pig): Not established

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

ACGIH TLV-TWA

not listed

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.

13. **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 14.

DOT Shipping Description: NOT REGULATED BY USDOT. U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; DRY (NMFC 50320, SUB 5; CLASS 50)

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

1

- Health Flammability
- 0 Instability 0
- High 3 4 Severe

Least

Slight

Moderate

0

1

2

Health 1 0 Flammability

HMIS

- Reactivity 0
- н PPE

MATERIAL SAFETY DATA SHEET

SARA Hazard Notification/Reporting

SIGNATURE® DIMENSION* 0.19 PLUS FERTILIZER

SARA Title III Hazard Category:	Immediate <u>Y</u> Delayed <u>N</u>	Fire <u>N</u> Reactive <u>N</u>	Sudden Release of Pressure <u>N</u>
Reportable Quantity (RQ) under U.S SARA, Title III, Section 313: Not liste RCRA Waste Code: Not listed CA Proposition 65: WARNING: This harm.	d	known to the State of Califor	rnia to cause cancer or birth defects or other reproductive
16. OTHER INFORMATION			
MSDS STATUS: New			
PREPARED BY: Registrations and Regulatory Affairs			REVIEWED BY: Environmental/ Regulatory Services
®Signature is a registered trademark of	of Loveland Products, Inc.		
*Dimension is a trademark of Dow Agr	oSciences LLC		
Note: This material safety data shee	t applies to all Signature® N	I-P-K fertilizer analyses con	ntaining 0.19% Dimension.

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