



SAFETY DATA SHEET

SIGNATURE® DIMENSION® 0.1% PLUS FERTILIZER 0-0-7

SDS NUMBER: 62719486-16-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/05/16

SUPERSEDES: 02/14/14

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

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: SIGNATURE ® DIMENSION® 0.1% PLUS FERTILIZER 0-0-7

1.2 RECOMMENDED USE: TURF AND ORNAMENTAL HERBICIDE - FERTILIZER FOR USE BY LANDSCAPE PROFESSIONALS

1.3 SUPPLIER DETAILS:

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

1.4 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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity - Inhalation	Category 4	H332
Eye Damage/Irritation	Category 2B	H320
Sensitization – Skin	Category 1	H317
STOT SE	Category 3	H335
Aquatic Acute	Category 2	H401
Aquatic Chronic	Category 3	H412

2.2 Label elements



Signal word: WARNING

Hazard Statement: H332 – Harmful if inhaled.
H320 – Causes eye irritation.
H317 – May cause an allergic skin reaction.
H335 – May cause respiratory irritation.
H401 – Toxic to aquatic life.
H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statement: P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash hands and face thoroughly and exposed areas after handling.
(Prevention): P271 – Use only outdoors or in a well-ventilated area.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.
(Response): P321 – Specific treatment (see Precautionary Statements on this label)
P304+P340 – IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing.
P312 – Call a POISON CENTER or doctor/physician if you fell unwell.
P305+P351+P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P363 – Wash contaminated clothing before reuse.

Precautionary Statement: P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
(Storage):

Precautionary Statement: P501 – Dispose of contents/container according to local, state, and federal regulations.
(Disposal):



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2.3 Other hazards

No additional information available.

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
Muriate of Potash	7447-40-7	Eye irrit. 2B, H320	10 – 12
Dithiopyr	97886-45-8	Inh. tox., 4; H332 Aquatic Acute 3, H412 Aquatic Acute 2, H401	0.10

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact:

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.

Skin contact:

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.

Inhalation:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Ingestion:

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 centre or doctor. Do not give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Harmful if swallowed. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction in sensitive individuals. May cause respiratory irritation.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid breathing dusts. And contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

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. Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: 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.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Keep/store in original container. Store locked up. Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (OSHA, ACGIH or AIHA) Guides

Components	Type	Value
No data available	TWA	
Particulates not otherwise classified / regulated (PNOC; PNOR)	TWA	15 mg/m ³ (Total dust); 5 mg/m ³ (Respirable fraction)

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Specimen
No listings		

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dusts and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.
 Skin Protection: Wear chemical-resistant gloves. Long-sleeved shirt, long pants, and socks.
 Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH approved respirator with approved filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE:	Solid.
ODOR:	Slight.
ODOR THRESHOLD:	No data available.
COLOR:	Multi-colored.
pH:	No data available.
MELTING POINT / FREEZING POINT:	Melting Point: 271.4°F / 133°C (Urea).
BOILING POINT:	Not applicable.
FLASH POINT:	Not applicable.
FLAMMABILITY (solid, gas):	No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOR PRESSURE:	No data available.
SOLUBILITY:	Disperses in water.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	No data available.
DECOMPOSITION TEMPERATURE:	No data available.
VISCOSITY, kinematic:	No data available.
SPECIFIC GRAVITY (Water = 1):	0.72 – 1.04 g/ml
DENSITY:	45 - 65 lbs/ft ³ / 720.8 kg/m ³ – 1041.2 kg/m ³

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

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

Excessive heat, open flame, other ignition sources.

10.5 INCOMPATIBLE MATERIALS

Caustics, acids, oxidizers, fluorine, metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to oxides of carbon, hydrogen chloride, oxides of nitrogen, oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact. Inhalation. Ingestion.

LC₅₀ (rat): > 6.0 g/m³ (4 HR) Dithiopyr (CAS: 97886-45-8)

LD₅₀ Oral (rat): 2,600 mg/kg (Muriate of Potash)

LD₅₀ Dermal (rabbit): No data available

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): Causes skin irritation.

Eye Irritation (rabbit): Causes serious eye irritation.

Specific Target Organ Toxicity: Single exposure: May cause respiratory irritation.

Aspiration: No data available

Skin Sensitization (mouse): May cause an allergic skin reaction.

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Interactive Effects: None known



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12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicological Data

	Species	Test Results
Muriate of Potash	Gambusia affinis	435 mg/l, 96-hour LC ₅₀
	Daphnia magna	149 mg/l, 48-hour EC ₅₀

Drift or runoff may adversely affect non-target plants.
Do not apply directly to water.
Do not contaminate water when disposing of equipment wash water.
Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: Product is water soluble and eventually will biodegrade into elemental nitrogen. Excess nitrogen and nitrates in water will contribute to eutrophication with visible effects such as toxic algae bloom.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate is a violation of Federal law. 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. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, DRY (NMFC 68140, SUB 5; CLASS 50)

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

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



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SARA Hazard Notification/Reporting

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

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

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

CA Proposition 65: Not applicable.

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. Following is the hazard information as required on the pesticide label:

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 the material may cause allergic skin reactions in some individuals.

16. OTHER INFORMATION

SDS STATUS: Format change

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

®Signature is a registered trademark of Loveland Products Inc.

®Dimension is a registered trademark of Dow AgroSciences LLC

EPA REG. NO.: 62719-486-34704

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