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: 1-866-944-8565

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

PRODUCT NAME: SIGNATURE® FERTILIZER WITH 0.2% MERIT® 28-0-8

**CHEMICAL NAME:** Insecticide (Imidacloprid: 1-((6-chloro-3-pyridinyl) methyl)-N-nitro-2-imidazolidinimine) on N-P-K Fertilizer

**CHEMICAL FAMILY:** Chloronicotinyl Insecticide

432-1349-34704 **EPA REG. NO.:** 

MSDS Number: 4321349-10-LPI MSDS Revisions: New Date of Issue: 05/06/10 Supersedes: New

# HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente (If you cannot read or understand English, do not use this product until the label has been fully explained to you.) Harmful if swallowed or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. This blended dry pesticide-fertilizer is a mixture of Imidacloprid, Urea and Muriate of Potash.

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.

# COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Imidacloprid	0.20	138261-41-3	None Established
Total Nitrogen (N)	28.00	Mixture	None Established
Soluble Potash (K <sub>2</sub> O)	8.00	Mixture	None Established
Fertilizer salts and inert ingredients	63.80		

### **FIRST AID MEASURES**

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 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 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.

No specific antidote is available. Treat the patient symptomatically. NOTE TO PHYSICIAN:

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.

#### FIRE FIGHTING MEASURES 5.

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.

#### 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

STORAGE:

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.

Store in a cool, dry, place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food and feed. Store in original container and out of reach of children, preferably in a locked storage area. Do not contaminate

water, food, or feed by storage or disposal.

Personal Protective Equipment (PPE): Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride and 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.

### 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
Nuisance Particulates
15 mg/m³
ACGIH TLV-TWA
none established

# 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Light yellow to brown-colored granule with slight aromatic odor

SPECIFIC GRAVITY (Water = 1): 0.80 - 0.86 g/ml

BULK DENSITY: 50 - 54 lbs/ft<sup>3</sup>

pH: Not applicable

VAPOR PRESSURE: Not applicable
PERCENT VOLATILE (by volume): 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:** Caustics, acids, oxidizers, fluorine, metals. **HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

HAZARDOUS POLYMERIZATION: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): >5000 mg/kg
Eye Irritation (rabbit): Causes mild irritation
Inhalation LC₅₀ (rat): >20 mg/l

Acute Dermal LD₅₀ (rabbit): >5000 mg/kg
Skin Irritation (rabbit): Slight irritant
Skin Sensitization (guinea pig): Not a sensitizer

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

# 12. ECOLOGICAL INFORMATION

This product is highly toxic to aquatic invertebrates. 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 waters. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

# 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill the container. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by State and local ordinances.

#### 14. TRANSPORT INFORMATION

**DOT Shipping Description:** NOT REGULATED BY USDOT

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

### 15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

Health

Flammability

Instability

- 0
  - Least
  - Slight
     Moderate
     High
- 0 Reactivity H PPE

Health

Flammability

**HMIS** 

0

4 Severe

**SARA Hazard Notification/Reporting** 

SARA Title III Hazard Category:

Immediate Delayed \_\_\_Y\_\_\_ \_\_N\_\_ Fire N Reactive N

Sudden Release of Pressure

\_\_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 listed.

# 16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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