

SAFETY DATA SHEET SDS NUMBER: 1000176895-16-LPI SDS REVISIONS: FORMAT

DATE OF ISSUE: 01/04/16

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® STARLINE® 23-3-3 SOIL AND FOLIAR NUTRIENT

P264 – Wash hands and face thoroughly after handling. P270 – Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P321 - Specific treatment (see First Aid statements on product label).

P101 - If medical advice is needed, have product container or label at hand.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

- 1.2 RECOMMENDED USE: 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 Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

#### HAZARDS IDENTIFICATION 2.

2.1 Classification of the substance or mixture Classification according to 29 CFR 1910.1200 Acute Toxicity - Oral

Category 4

H302

### 2.2 Label elements



| Signal word:      | WARNING                                     |
|-------------------|---|
| Hazard Statement: | H302 – Harmful if swallowed                 |
|                   | H313 – May be harmful in contact with skin. |
|                   |   |

P330 - Rinse mouth.

P102 – Keep out of reach of children. P103 - Read label before use.

Precautionary Statement:

| (Prevention): |
|---------------|
| Precautionary |
| Statement:    |
| (Response):   |

Precautionary Statement: (General):

Precautionary Statement: (Storage):

P405 - Store locked up.

2.3 Other hazards None known



### 3. COMPOSITION, INFORMATION ON INGREDIENTS

### 3.1 Substances

### Classification according to 29 CFR 1910.1200

3.2 Mixtures

| CAS No.   | Concentration<br>[%]              |
|-----------|-----------------------------------|
| 7098-14-8 | 55 - 60                           |
| 57-13-6   | 25 – 29                           |
| 7320-34-5 | 5-8                               |
| 7732-18-5 | 5-7                               |
|           | 7098-14-8<br>57-13-6<br>7320-34-5 |

### 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.   |
|---|---|
| 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 center or doctor. Do not give anything by mouth to an unconscious person. |
| 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.   |
| Symptoms:   | /mptoms and Effects, Acute and Delayed<br>Eye irritation.   |
| 4.3 Immediate Medical Attention and Special Treatment |   |
| Treatment: Trea                                       | t 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: Foam, carbon dioxide (CO<sub>2</sub>), dry powder, water spray. 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, oxides of carbon and silicon dioxide 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.



### 6. ACCIDENTAL RELEASE MEASURES

| 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES |  |  |  |
|---|--|--|--|
| Personal Precautions:   | Avoid inhalation of vapors, dusts and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. |  |  |
| 6.2 ENVIRONMENTAL PRECAUTIONS   | 5  |  |  |

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:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination.

Never return spills to original containers for re-use.

### 7. HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING: Advice on Safe Handling: Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe dusts, mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE: Requirements for Storage Areas and Containers:

rage Areas and Containers: Store in original container. Keep tightly closed. Do not reuse empty container. Do not

contaminate water, food or feed by storage or disposal.

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION** 8.1 CONTROL PARAMETERS: **OCCUPATIONAL EXPOSURE LIMITS** U.S. Workplace Exposure Level (OSHA) PELs Components Value Type No data available TWA 35 mg/m<sup>3</sup> **Biological limit values ACGIH Biological Exposure Indices Components** Value Specimen No listinas 8.2 EXPOSURE CONTROLS: **Engineering Measures**

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

### Individual Protection Measures:

| individual i reteetion ine |  |
|----------------------------|--|
| Eye / Face Protection:     | Goggles or shielded safety glasses are recommended.  |
| Skin Protection:           | Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove            |
|                            | contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware            |
|                            | that the liquid may penetrate the gloves. Frequent change is advisable.  |
| Respiratory Protection:    | In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as |
|                            | MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during           |
|                            | operations where spraving 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.   |
|                            |  |



### 9. PHYSICAL AND CHEMICAL PROPERTIES

| 9.1   | APPEARANCE :                | Liquid  |
|-------|-----------------------------|---|
|       | ODOR:                       | Slight acidic.  |
|       | ODOR THRESHOLD:             | No data available.  |
|       | COLOR:                      | Clear, light green.   |
|       | pH:                         | 9.7.  |
|       | MELTING POINT / FREEZIN     | G POINT: No data available  |
|       | BOILING POINT:              | >212 °F / >100 °C   |
|       | FLASH POINT:                | Does not flash.   |
|       | FLAMMABILILITY (solid, gas) | : No data available.  |
|       | UPPER / LOWER FLAMMAB       | LITY OR EXPLOSIVE LIMITS: No data available.                              |
|       | VAPOR PRESSURE:             | No data available.  |
|       | SOLUBILITY:                 | Soluble   |
|       | PARTITION CO-EFFICIENT,     | n-OCTANOL / WATER: No data available.                                     |
|       | AUTO-IGNITION TEMPERAT      | URE: No data available.   |
|       | DECOMPOSITION TEMPERA       | ATURE: No data available  |
|       | VISCOSITY, dynamic:         | No data available   |
|       | SPECIFIC GRAVITY (Water =   | = 1): 1.27 g/ml   |
|       | BULK DENSITY:               | 10.59 lbs./gal / 1.27 kg/L  |
| Note: | These physical data are ty  | pical 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
- Avoid contact with lime, heat, strong oxidizers, and acids. 10.5 INCOMPATIBILE MATERIALS
- Strong oxidizers.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Urea may decompose to release cyanuric acid, ammonia, HCN, NO, oxides of potassium, oxides of phosphorus, and oxides of carbon.

### **11. TOXICOLOGICAL INFORMATION**

### **11.1 LIKELY ROUTES OF EXPOSURE**

Eye contact, skin contact. LC<sub>50</sub> (rat): No data available LD<sub>50</sub> Oral (rat): > 2,500 mg/kg (Urea-Triazone); 8,471 mg/kg (Urea) LD<sub>50</sub> Dermal (rat): > 2,000 mg/kg Acute Toxicity Estimates: No data available Skin Irritation (rabbit): No data available Eye Irritation (rabbit): No data available Specific Target Organ Toxicity: Single exposure: No data available. Aspiration: No data available Skin Sensitization (guinea pig): Not a sensitizer Carcinogenicity: No data available Germ Cell Mutagenicity: No data available Interactive Effects: None known



### **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. This product is not intended for use in aquatic settings. **Ecotoxicological Data** 

| Components                   | Species       | Test Results                          |  |
|------------------------------|---------------|---------------------------------------|--|
| Tetrapotassium Pyrophosphate | Rainbow trout | > 100 mg/L – 96 hour LC <sub>50</sub> |  |
| Urea                         | Daphnia magna | 3,910 mg/l 96-hour EC <sub>50</sub>   |  |

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: No data available

**12.3 BIOACCUMULATIVE POTENTIAL** 

**Bioaccumulation:** No data available.

### **12.4 MOBILITY IN SOIL**

No data available.

### **12.5 OTHER ADVERSE EFFECTS**

No data available. Assessment:

### 13. DISPOSAL CONSIDERATIONS

### **13.1 WASTE TREATMENT METHODS**

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. 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, LIQUID (NMFC 68140, SUB 6; CLASS 70)

### **15. REGULATORY INFORMATION**

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:

# NFPA

0

- Health 1 0 Flammability
  - Instability 2
- 3 High 4 Severe

Slight

Moderate

0 Least

1

- Health 1
- 0 Flammability
- Reactivity 0
- В PPE



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SARA Hazard Notification/Reporting SARA Title III Hazard Category: Immediate Sudden Release of Pressure Fire N Delayed N Reactive Reportable Quantity (RQ) under U.S. CERCLA: No listings SARA, Title III, Section 313: No listings 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

### **16. OTHER INFORMATION**

harm.

SDS STATUS: Format revised. PREPARED BY: Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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