SDS NUMBER: 1000355891-15-LPI SDS REVISIONS: FORMAT DATE OF ISSUE: 02/25/15

N-PHURIC® 28/27 SUPERSEDES: 05/23/12

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: N-PHURIC® 28/27 28-0-0 9S

1.2 RECOMMENDED USE: FERTILIZER

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

Eye IrritationCategory 1H318Skin Corrosion / IrritationCategory 1BH314Acute Toxicity (Oral)Category 5H335

#### 2.2 Label elements



Signal word: DANGER

Hazard Statement: H318 – Causes serious eye damage.

H314 – Causes severe skin burns and eye damage.

H335 – May cause respiratory irritation. H333 – May be harmful if inhaled. H303 – May be harmful if swallowed.

Precautionary

Statement: P260 – Do not breathe mist / vapors / spray.

P264 - Wash thoroughly after handling.

(Prevention): P271 – Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 – Wear protective gloves / eye protection / face protection.

Precautionary

Statement: P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

(Response): P303+P361+P353 - IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P312 – IF INHALED: Call a POISON CENTER or doctor / physician if you feel 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.

P310 – Immediately call a POISON CENTER or doctor / physician.

P340 – Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 – Wash contaminated clothing before reuse.

P391 - Collect spillage.

Precautionary Statement:

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

P405 – Store locked up.

### 2.3 Other hazards

None known

#### **KEEP OUT OF REACH OF CHILDREN -**

Appearance and odor: Blue liquid with no odor.

DANGER

**Potential Health effects** 

**Routes of exposure** Eye contact, skin contact, inhalation. Avoid breathing spray mist.

Eyes Causes serious eye damage.
Skin Causes severe skin burns.

Inhalation May be harmful if inhaled.
Ingestion May be harmful if swallowed.
Target organs Skin. Eyes. Inhalation.

Signs and symptoms May be harmful if absorbed through skin.

**Potential environmental effects** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

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**COMPOSITION, INFORMATION ON INGREDIENTS** 

# 3.1 Substances

## 3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Classification Concentration

> [%] Skin Corr. 1B; H314 100.00

Eve Dam. 1; H318 STOT SE: H335

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#### **FIRST AID MEASURES**

#### 4.1 Description of First Aid Measures

Monocarbamide dihydrogen sulfate

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.

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to Ingestion:

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.

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.

# 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Inhalation: May cause respiratory irritation.

Eyes: Causes serious eye damage.

Skin: Causes severe skin burns and eye damage.

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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.

Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure

should be directed at the control of symptoms and the clinical condition of the patient.

# **FIRE FIGHTING MEASURES**

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), 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.

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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# **ACCIDENTAL RELEASE MEASURES**

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist 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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is Methods for Clean-Up:

possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

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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.

#### HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe

mists 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:

Store in cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Product will become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. 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 (ACGIH) TLVs

Components Type Value

No data available

U.S. Workplace Exposure Level (OSHA) PELs Components **Type** 

No data available

# **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 vapors and spray mists. Provide evewash station and safety shower.

### **Individual Protection Measures:**

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus Skin Protection:

In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as Respiratory Protection:

MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE 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

Value

protection if exposure concentrations are unknown.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid
ODOR: Odorless.
ODOR THRESHOLD: No data available.
COLOR: Blue.

pH: 1.0 (10% solution)

MELTING POINT / FREEZING POINT: No data available

BOILING POINT: 212°F (100°C) (Decomposes at 230°F)

FLASH POINT: Does not flash FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Soluble

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available VISCOSITY, dynamic: No data available SPECIFIC GRAVITY (Water = 1): 1.43 g/ml

BULK DENSITY: 11.93 lbs./gal / 1.43 kg/L

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

Corrosive to 304 stainless steel. Slightly corrosive to 316 stainless steel. Will not polymerize.

# **10.4 CONDITIONS TO AVOID**

Avoid contact with hypochlorites, sulfides, or alkaline materials. Avoid storage, piping, or handling systems made of copper, zinc, or their alloys (bronze, brass, galvanized metals, etc.).

#### 10.5 INCOMPATIBILE MATERIALS

Hypochlorites, sulfides, or alkaline materials. Incompatible with nylon and nylon beads.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Heating to dryness may cause the release of carbon dioxide gas.

## 11 TOXICOLOGICAL INFORMATION

#### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact. LC<sub>50</sub> (rat): No data available. LD<sub>50</sub> Oral (rat): 350 mg/kg LD<sub>50</sub> Dermal (rat): >2,000 mg/kg

Acute Toxicity Estimates: No data available.

Skin Irritation (rabbit): May be corrosive to skin.

Eye Irritation (rabbit): Corrosive.

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

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## 12 ECOLOGICAL INFORMATION

#### 12.3 ECOTOXICITY

A toxic hazard to fish. Avoid spills or release to watercourses. 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** 

Species Test Results

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Product

No data available.

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

Assessment: No data available.

## 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 <a href="http://www.acrecycle.org/">http://www.acrecycle.org/</a>. Do not contaminate water, food or feed by storage or disposal.

#### 14 TRANSPORT INFORMATION

# 14.3 LAND TRANSPORT

DOT Shipping Description: UN1760, CORROSIVE LIQUIDs, N.O.S. (MONOCARBAMIDE DIHYDROGENSULFATE), 8, III ERG GUIDE 154

NOTE: DOT CORROSIVE TO ALUMINUM AND STEEL. NOT REGULATED BY DOT IF TRANSPORTED BY MOTOR VEHICLE OR RAILCAR IN PACKAGING THAT WILL NOT REACT DANGEROUSLY OR BE DEGRADED BY THIS MATERIAL, 49CFR 173.154(D)

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 HMIS

3Health0Least3Health0Flammability1Slight0Flammability0Instability2Moderate0Reactivity3HighBPPE

4 Severe

# **SAFETY DATA SHEET**

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SARA Hazard Notification/Reporting
SARA Title III Hazard Category: Immediate Y 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: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive

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harm

## 16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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