

# Safety Data Sheet N-SURE<sup>®</sup>

SDS Number:	204	Revision:	March 10, 201	5
Section 1:	IDENTIFICATION			
1.1 Product Name:		N-Sure <sup>®</sup>		
1.2 Other Ider	ntification:			
	Chemical Family: Formula:	Aqueous orgar Not applicable	nic salt solution - blend	
1.3 Recommended Use of Chemical:		Agricultural Ind	dustry – Fertilize	r
1.4 Manufacti	urer:		erley Inc. reet, Suite 300 na 85008-3279	
	Information:	(602) 889-830	)	
1.5 Emergenc	y Contact:	Tessenderlo Ke CHEMTREC	erley, Inc.	(800) 877-1737 (800) 424-9300 Domestic (703) 527-3887 International

# Section 2: HAZARD(S) IDENTIFICATION

2.1 Hazard Classification:	Health Physical	None None
2.2 Signal Word:	Not applicable	
2.3 Hazard Statement(s):	Not applicable	
2.4 Symbol(s):	Not applicable	
2.5 Precautionary Statement(s):	Not applicable	
2.6 Unclassified Hazard(s):	None	
2.7 Unknown Toxicity Ingredient:	None	

## Section 3: COMPOSITION/INFORMATION on INGREDIENTS

## 3.1 Chemical Ingredients: (See Section 8 for exposure guidelines)

Proprietary ingredients

Chemical	Synonym Common Name	CAS No.	EINECS No.
Urea	Urea	57-13-6	200-315-5
1,3,5-triazinan-2-one	Triazone	7098-14-8	230-406-5
Water	Water	7732-18-5	231-791-2

#### Section 4: FIRST AID MEASURES

## 4.1 Symptoms/Effects:

Acute:	Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.
Chronic:	No known chronic effects.
4.2 Eyes:	Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.
4.3 Skin:	Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.
4.4 Ingestion:	If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.
4.5 Inhalation:	Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.

## Section 5: FIRE FIGHTING MEASURES

## 5.1 Flammable Properties: (See Section 9 for additional flammable properties)

Heating this product may evolve ammonia.

NFPA: Health - 1 Flammability - 0 Reactivity - 0

5.2 Extinguishing Media:	Page 3 of 9 As appropriate for combustible materials involved in fire.	
5.2.1 Suitable Extinguishing Media:	Not flammable, use media suitable for combustibles involved in fire.	
5.2.2 Unsuitable Extinguishing Media:	Not applicable	
5.3 Protection of Firefighters:		
5.3.1 Specific Hazards Arising from the Chemical:		
Physical Hazards:	Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases.	
Chemical Hazards:	Heating causes release of vapors. Vapors are irritating to eyes, skin and respiratory tract. Heating to dryness may cause the release of ammonia, and oxides of carbon.	
5.3.2 Protective Equipment and Precautions for Firefighters:		

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

## Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Use personal protective equipment specified in Section 8. Isolate the release area and deny entry to unnecessary, unprotected and untrained personnel.
6.2 Environmental Precautions:	Keep large quantities out of "waters of the United States" because of potential aquatic toxicity. This product is a non-hazardous liquid fertilizer.
6.3 Methods of Containment:	
Small Release:	Confine and absorb small releases with sand, earth or other inert absorbents.
Large Release:	Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity), storm drains and sewers.

## 6.4 Method for Cleanup:

Small Release:	Shovel up absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer.
Large Release:	Recover as much of the spilled product as possible using portable pump and hoses. Use recovered material as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above).

#### Section 7: HANDLING and STORAGE

- 7.1 Handling:Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after<br/>handling. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated<br/>contact with the skin.
- 7.2 Storage: Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See Section 10.5 for materials of construction.)

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Exposure Guidelines:

Chemical	OSHA PELs		ACGIH	I TLVs
	TWA	STEL	TLV	STEL
Urea			10 mg/m <sup>3</sup>	

#### 8.2 Engineering Controls:

Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

8.3.1 Eye/Face Protection:	Chemical goggles and a full face shield.
8.3.2 Skin Protection:	Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.
8.3.3 Respiratory Protection:	None generally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.
8.3.4 Hygiene Considerations:	There are no known hazards associated with this product when used as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

# Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Appearance: 9.2 Odor:	Clear, blue or colorless liquid Slight amine odor
9.3 Odor Threshold:	Not determined
9.4 pH:	9 - 11 (Typical)
9.5 Melting point/Freezing Point:	< 0°F (< -17.8°C)
	219° F (104°C)
9.6 Boiling Point:	, ,
9.7 Flash Point:	Not applicable
9.8 Evaporation Rate:	Not determined
9.9 Flammability:	Not applicable
9.10 Upper/Lower Flammability Limits:	Not applicable
9.11 Vapor Pressure:	Not determined
9.12 Vapor Density:	Not determined
9.13 Relative Density:	1.29 (10.7 lbs/gal)
9.14 Solubility:	Complete
9.15 Partition Coefficient:	Data not available.
9.16 Auto-ignition Temperature:	Not applicable
9.17 Decomposition Temperature:	Not determined
9.18 Viscosity:	67.5 Cp @ 25°C

# Section 10: STABILITY and REACTIVITY

10.1 Reactivity:	See Sections 10.4, 10.5.
10.2 Chemical Stability:	This is a stable material.
<b>10.3</b> Possibility of Hazardous Reactions:	Strong oxidizers such as nitrates or chlorates can cause explosive mixtures if heated to dryness.
10.4 Conditions to Avoid:	Heat, strong oxidizers and acids or acidic materials.
10.5 Incompatible:	Strong oxidizers (See section 10.3). Acids will cause the release of sulfur dioxide, a severe respiratory irritant. This product is not compatible with copper, zinc or their alloys including brass, bronze or galvanized materials. These materials should not be utilized in handling systems or storage containers for this product.
<b>10.6 Hazardous Decomposition Products:</b>	Heating this product will evolve ammonia. Heating to dryness will cause the production of ammonia, and oxides of carbon. Ammonia (16-25%) may form flammable mixtures with air.

# Section 11: TOXICOLOGICAL INFORMATION

11.1 Oral:	Oral-Rat LD <sub>50</sub> : > 2,500 mg/kg
11.2 Dermal:	$N\text{-}SURE^*$ is not a skin sensitizer in guinea pigs by closed patch technique.
11.3 Inhalation:	Data not available.
11.4 Eyes:	Data not available.
11.5 Chronic/Carcinogenicity:	Data not available.
11.6 Teratology:	Data not available.
11.7 Reproduction:	Data not available.
11.8 Mutagenicity:	N-SURE <sup>®</sup> is not mutagenic in an Ames Assay using Salmonella typhimurium.

# Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	No data available.
12.2 Persistence & Degradability:	No data available.
12.3 Bioaccumulative Potential:	This product is not bioaccumulative.
12.4 Mobility in Soil:	No data available.
12.5 Other Adverse Effects:	None

# Section 13: DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements.

# Section 14: TRANSPORT INFORMATION

# 14.1 Basic Shipping Description:

<ul> <li>14.1.1 Proper Shipping Name:</li> <li>14.1.2 Hazard Classes:</li> <li>14.1.3 Identification Number:</li> <li>14.1.4 Packing Group:</li> <li>14.1.5 Hazardous Substance:</li> <li>14.1.6 Marine Pollutant:</li> </ul> 14.2 Additional Information:	N-Sure, 28-0-0 <i>(Not regulated by DOT)</i> Not applicable Not applicable Not applicable No No
14.2.1 Other DOT Requirements:	
14.2.1.1 Reportable Quantity: 14.2.1.2 Placard(s): 14.2.1.3 Label(s):	No Not applicable Not applicable
14.2.2 USCG Classification:	Not determined
14.2.3 International Transportation:	
14.2.3.1 IMO: 14.2.3.2 IATA: 14.2.3.3 TDG (Canada): 14.2.3.4 ADR (Europe): 14.2.3.5 ADG (Australia):	Non-hazardous under IMDG regulations. Non-hazardous under IATA regulations. Not regulated – See US DOT Section 14.1.1. Not regulated Not regulated

14.2.4 Emergency Response Guide:	Not applicable
14.2.5 ERAP - Canada:	Not applicable
14.2.6 Special Precautions:	Not applicable

# Section 15: REGULATORY INFORMATION

# 15.1 U.S. Federal Regulations:

15.1.1 OSHA:	This product meets the criteria of the Federal OSHA Hazard communication Standard (29 CFR 1910.1200).
15.1.2 TSCA:	Product is contained in USEPA Toxic Substance Control Act Inventory.
15.1.3 CERCLA:	Reportable Quantity – Not applicable

## 15.1.4 SARA Title III:

15.1.4.1 Extremely Hazardous Substance (EHS):	Not applicable	
15.1.4.2 Section 312 (Tier II) Ratings:	Immediate (acute)YesFireNoSudden ReleaseNoReactivityNoDelayed (chronic)No	
15.1.4.3 Section 313 (FORM R):	Not applicable	
15.1.5 RCRA:	Not applicable	
15.1.6 CAA: Hazardous Air Pollutant (HAP)	Not applicable	
15.2 International Regulations:		
15.2.1 Canada:		
15.2.1.1 WHMIS:	Not determined	
15.2.1.2 DSL/NDSL:	Not listed in DSL/NDSL	
15.3 State Regulations:		
15.3.1 CA Proposition 65:	Not applicable	

#### Section 16: OTHER INFORMATION

**REVISIONS:** This SDS was reformatted to comply with the new Hazard Communication Standard dated March 26, 2012, by the Regulatory Affairs Department of Tessenderlo Kerley, Inc. 7/15/2013.

Revised multiple sections to correct wording and formatting. 3/10/2015

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