

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 08/15/2019

N-pHURIC 28/27 SUPERSEDES: 02/25/2015

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Product identifier</u> Product Name	N-pHURIC 28/27		
<u>Other means of identification</u> Product Code UN/ID no Document Synonyms	FRT-00324 1760 1000355891 None		
Recommended use of the chemica	I and restrictions on use		
Recommended Use	Crop Nutrient.		
Uses advised against	No information available		
Details of the supplier of the safety Manufacturer Address LOVELAND PRODUCTS, INC. P.O. Box 1286 Greeley, CO 80632-1286	<u>v data sheet</u>		
Emergency telephone number Company Phone Number Emergency Telephone	1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300 Medical Emergencies: 1-866-944-8565 US regulations require reporting spills of this material that could reach any surface waters. The toll-free phone number for the US Coast Guard National Response Center is 1-800-424-8802		

2. HAZARDS IDENTIFICATION

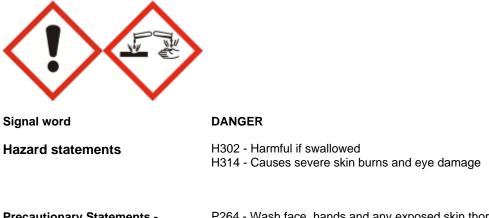
Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

Label elements



Precautionary Statements -

P264 - Wash face, hands and any exposed skin thoroughly after handling



Products	TY DATA SHEET SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 08/15/2019 P270 - Do not eat, drink or smoke when using this product P260 - Do not breathe dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection	N-pHURIC 28/27 SUPERSEDES: 02/25/2015
Precautionary Statements - Response	 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or d unwell P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off i clothing. Rinse skin with water/shower P304 + P340 - IF INHALED: Remove victim to fresh air and kee comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water Remove contact lenses, if present and easy to do. Continue rins P310 - Immediately call a POISON CENTER or doctor/physicia P330 - Rinse mouth P331 - Do NOT induce vomiting P363 - Wash contaminated clothing before reuse 	mmediately all contaminated ep at rest in a position for several minutes. sing
Precautionary Statements - Storage	P405 - Store locked up	
Precautionary Statements - Disposal	P501 - Dispose of contents/ container to an approved waste dis	sposal plant
Hazards not otherwise classified		

Hazards not otherwise classified (HNOC) Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Monocarbamide dihydrogensulfate	21351-39-3	60 - 100		*

*The exact percentage (concentration) of composition has been withheld as a trade secret. OSHA Hazard Communication 29 CFR 1910.1200



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4. FIRST AID MEASURES			
Description of first aid measures			
General advice	Get medical attention if symptoms occur.		
Eye contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. 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	Remove 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 for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.		
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	No information available.		
Indication of any immediate medic	al attention and special treatment needed		
Treatment:	Treat symptomatically. Symptoms may be delayed. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-866-944-8565 for emergency medical treatment information.		
Note to physicians	No specific antidote. Treat symptomatically.		
Antidotes	No data available		
5. FIRE-FIGHTING MEASURES			

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO₂, dry chemical, or foam

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions 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.



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 08/15/2019 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

 Personal precautions
 Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.
Incompatible materials	Incompatible with strong acids and bases. Incompatible with oxidizing agents.



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Control parameters

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.		
Appropriate engineering controls			
Engineering Controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, su	ch as personal protective equipment		
Eye/face protection	Tight sealing safety goggles. Face protection shield.		
Skin and body protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.		
Respiratory protection	Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.		
General Hygiene Considerations	When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.		



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Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold Liquid Viscous liquid Blue green Odorless No data available

No data available

100 °C / 212 °F

No data available

No data available

No data available

No data available No data available

No data available

No data available

No data available

No data available

No data available No data available

No data available

No data available

1.43 g/ml

Soluble

230

Values (Remarks - Method) 1.0 (10% solution)

No data available Does not flash

Property pН Melting point / freezing point Boiling point Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Specific Gravity** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature Kinematic viscosity** Dynamic viscosity **Explosive properties Oxidizing properties**

Other Information

VOC Content (%) Density

No data available 11.93lbs/gal

<u>Note:</u> 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.



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Reactivity No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Corrosive to 304 stainless steel. Slightly corrosive to 316 stainless steel.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product:

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC50
Monocarbamide dihydrogensulfate	= 350 mg/kg (Rat)	> 2 g/kg (Rabbit)	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Chronic toxicity	No information available. No information available. No information available. No information available. No information available. Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.
Aspiration hazard	No information available.
Information on likely routes of expo	<u>osure</u>
Product Information	No data available
Inhalation	No data available.
Eye contact	Corrosive.
Skin contact	Non-corrosive.
Ingestion	May be harmful if swallowed.



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Ecotoxicity

Persistence and degradability

No information available.

Bioaccumulation No information available.

Other adverse effects	No information available			
	13. DISPOSAL CONSIDERATIONS			
Waste treatment methods				
Disposal of wastes	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.			
Contaminated packaging	Do not reuse container.			

14. TRANSPORT INFORMATION

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)			
DOT				
UN/ID no	1760			
Proper shipping name	CORROSIVE LIQUIDS, N.O.S. (MONOCARBAMIDE			
	DIHYDROGENSULFATE)			
U.S. Surface Freight Classificati	on: FERTILIZING COMPOUNDS (MANUFACTURED			
	FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)			
Hazard Class	8			
Packing Group	111			
Emergency Response Guide Nu	mber 154			



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13. REODERIORT INFORMATION							
NFPA_	Health hazards	3 Flamm	ability 0	Instability 0	Physical and Chemical Properties -		
HMIS	Health hazards	3 Flamm	ability 0	Physical hazards	•		
	0 - Least	1 - Slight	2 - Moderate	3 - High	4 - Severe		

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

US EPA Waste Number D002

U.S. EPA Label Information



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Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Safety, Health and Environment

Issue Date	08/15/2019
Revision Date	08/15/2019
Revision Note	
All SDS sections updated	

N-pHURIC 28/27 is a registered trademark of Loveland Products, Inc.

Disclaimer

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

End of Safety Data Sheet