

N-pHURIC 15/49 SUPERSEDES: 05/16/2019

SDS REVISIONS: Sections 9 and DATE OF ISSUE: 08/14/2019

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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name N-pHURIC 15/49

Other means of identification

 Product Code
 FRT-00293

 UN/ID no
 UN1760

 Document
 1000355883

 Synonyms
 None

Recommended use of the chemical and restrictions on use

Recommended Use Crop Nutrient.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address LOVELAND PRODUCTS, INC. P.O. Box 1286

Greeley, CO 80632-1286

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)
Acute toxicity - Dermal	Category 4 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

Label elements



Signal word DANGER

Hazard statements H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage



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Precautionary Statements -

Prevention

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

P270 - Do not eat, drink or smoke when using this product

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements -

Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P363 - Wash contaminated clothing before reuse

Precautionary Statements -

Storage

P405 - Store locked up

Precautionary Statements -

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

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.

IngestionCall 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 Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical 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

Dry chemical, CO2 or water spray, Dry chemical, CO2, alcohol-resistant foam or water spray, Move containers from fire area if you can do it without risk, Dike fire control water for later disposal; do not scatter the material

Specific hazards arising from the chemical

Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).

Explosion data

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

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Stop leak if you can do it without risk.

Other Information Do not get water inside containers or in contact with substance.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentAbsorb or cover with dry earth, sand or other non-combustible material and transfer to

containers.

Methods for cleaning upDike 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. Pick up and transfer to properly labeled containers.

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. Use with local exhaust ventilation. Do not breathe

dust/fume/gas/mist/vapors/spray.

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. Keep containers tightly closed in a cool, well-ventilated place.

Packaging materials DO NOT STORE IN ALUMINUM TANKS.

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



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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, such 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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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearanceViscous liquidColorClear Dark pinkOdorOdorless

Odor threshold No data available

<u>Property</u> <u>Values (Remarks - Method)</u>

pH 1.0 (10% solution)
Melting point / freezing point No data available
Boiling point 100 °C / 212 °F

Flash point No data available Does not flash

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

No data available
No data available
No data available
No data available

Specific Gravity 1.51 g/ml **Water solubility** Soluble

Solubility in other solventsNo data availablePartition coefficientNo data availableAutoignition temperatureNo data available

Decomposition temperature 230

Kinematic viscosityNo data availableDynamic viscosityNo data availableExplosive propertiesNo data availableOxidizing propertiesNo data available

Other Information

VOC Content (%)

No data available
12.60lbs/gal

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.



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10. STABILITY AND REACTIVITY

Reactivity

No data available **Chemical stability**

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Corrosive to aluminum. May react violently.

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:

 $\begin{array}{lll} \text{Oral LD}_{50} & 350 \text{ mg/kg} \\ \text{Dermal LD}_{50} & > 2000 \text{ mg/kg} \\ \end{array}$

Skin corrosion/irritation Non-irritating.

Serious eye damage/eye irritation Causes serious eye damage.

Sensitization Not a skin sensitizer.

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
lonocarbamide 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
No information available.
No information available.
No information available.
No information available.

Chronic toxicity 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 exposure

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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12. ECOLOGICAL INFORMATION

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 wastesWastes 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: THIS MATERIAL IS CORROSIVE TO ALUMINUM ONLY - CFR 173.154(d) - "A MATERIAL

CLASSED AS CLASS 8, PACKING GROUP III MATERIAL SOLELY BECAUSE OF ITS CORROSIVE EFFECT - (1) ON ALUMINUM IS NOT SUBJECT TO ANY OTHER REQUIREMENTS OF THIS SUBCHAPTER WHEN TRANSPORTED BY MOTOR VEHICLE OR RAILCAR IN A PACKAGING CONSTRUCTED OF MATERIAL THAT WILL

NOT REACT DANGEROUSLY WITH OR BE DEGRADED BY THE CORROSIVE

MATERIAL".

STEEL AND NON-ALUMINUM TANKS - NOT REGULATED BY USDOT.

<u>DOT</u>

UN/ID no UN1760

Proper shipping name CORROSIVE LIQUIDS, N.O.S. (MONOCARBAMIDE

DIHYDROGENSULFATE)

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED

FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)

Hazard Class
Packing Group

Special Provisions IB3, T7, TP1, TP28

Description UN1760, Corrosive liquids, n.o.s., 8, III

Emergency Response Guide Number 154

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15. REGULATORY INFORMATION

NFPA **Health hazards** 3 Flammability 0 Instability 0 **Physical and Chemical**

Properties -

Health hazards 3 Personal protection X HMIS Flammability 0 Physical hazards 0

> 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

US Federal Regulations

SARA 313

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

<u>California Proposition 65</u>
This product does not contain any Proposition 65 chemicals

US EPA Waste Number D002

U.S. EPA Label Information



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16. OTHER INFORMATION

Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Safety, Health and Environment

 Issue Date
 08/14/2019

 Revision Date
 08/15/2019

Revision Note

2 SDS sections updated

N-pHURIC 15/49 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