

SDS REVISIONS: SEC. 9

**NUTRISYNC® BORON** 

**SUPERSEDES: 03/05/14** 

## FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

DATE OF ISSUE: 12/05/17

H302

#### 1. **IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

1.1 PRODUCT IDENTIFIER: TRADE NAME:

## **NUTRISYNC® BORON** FOLIAR NUTRIENT - FOR THE PREVENTION AND CORRECTION OF BORON DEFICIENCIES IN CROPS

- 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

Category 4

#### HAZARDS IDENTIFICATION 2.

## 2.1 Classification of the substance or mixture

## 2.2 Classification according to 29 CFR 1910.1200

Acute Toxicity - Oral



Signal word: Hazard Statement:	WARNING H302 – Harmful if swallowed.
Precautionary Statement: (Prevention):	P264 – Wash hands and face thoroughly after handling. P270 – Do not eat, drink or smoke when using this product.
Precautionary Statement: (Response):	P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 – Rinse mouth.
Precautionary Statement: (Storage):	Not applicable or required.
Precautionary Statement: (Disposal):	P501 – Dispose of contents/container in accordance with local, state and federal regulations.

### 2.3 Other hazards None known



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7732-18-5

Proprietary

52.58

1.89

3 COMPOSITION, INFO	ORMATION ON INGREDIENTS	
3.3 Substances		
Classification according to	29 CFR 1910.1200	
3.2 Mixtures		
Chemical Name:	CAS No.	Concentration [%]
Boric Acid	10043-35-3	32.40
Monoethanolamine	141-43-5	13.13

4	FIRST AID MEASURES

Water

Other ingredients

## 4.3 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact: Ingestion:	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. 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.

### 4.4 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Harmful if swallowed.

## 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.

**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

## 5.3 EXTINGUISHING MEDIA:

	Suitable Extinguishing Media:	Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide $(CO_2)$ , foam, water spray or fog.	
5.4	.4 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:		
	Specific Hazards During Firefighting:	During a fire, oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen may be produced.	
5.5	5 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.	



SAFETY DATA SHEET

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6 ACCIDENTAL RELEAS	E MEASURES
6.1 PERSONAL PRECAUTIONS, PR	OTECTIVE 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 PRECAUTIO	NS
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 FO	R 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.

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7 HANDLING AND STORAGE

## 7.3 PRECAUTIONS FOR SAFE HANDLING: Advice on Safe Handling:

Avoid inhalation of vapors / spray and contact with eyes, skin and clothing. Do not breathe 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.

## 7.4 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store above 32<sup>o</sup>F (0<sup>o</sup>C). Do not contaminate water, food, or feed by storage or disposal.

EXPOSURE CONTR	OLS / PERSONAL PROTECT	TION
8.3 CONTROL PARAMETERS		
CCUPATIONAL EXPOSURE L	-	
ACGIH® TLVs®		
Components	Туре	Value
Borate compound		
Monoethanolamin		
Wohoethanolamin		7.0 mg/m
U.S. Workplace Exposure	Level (OSHA) PELs	
Components	Туре	Value
Monoethanolamin	e TWA	6 mg/m <sup>3</sup>
ACGIH Biologica <u>Components</u>	I Exposure Indices Value	Specimen
No listings		
8.4 EXPOSURE CONTROLS:		
Engineering Measures		
Provide adequate general a	nd local exhaust ventilation. Obser	rve Occupational Exposure Limits and minimize the risk of inhalation of vapors and sp
mists. Provide eyewash stat		
Individual Protection Mea		
Individual Protection Mea Eye / Face Protection:	Goggles or shielded safety glas	
Individual Protection Mea	Goggles or shielded safety glas Chemical resistant clothing is re	sses are recommended. ecommended. Routinely wash work clothing and protective equipment to remove nical-resistant gloves is recommended when handling undiluted product. Be aware

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. In the U.S.A., 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.



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## 9 PHYSICAL AND CHEMICAL PROPERTIES

9.3		Liquid
	ODOR:	Mild.
	ODOR THRESHOLD:	0.1 ppm.
	COLOR:	Colorless to pale yellow.
	pH:	8.15.
	MELTING POINT / FREEZING	S POINT: No data available
	BOILING POINT:	212 °F / 100 °C
	FLASH POINT:	Does not flash
	FLAMMABILILITY (solid, gas):	Does not support combustion.
	UPPER / LOWER FLAMMABII	LITY OR EXPLOSIVE LIMITS: Not applicable.
	VAPOR PRESSURE:	No data available.
	SOLUBILITY:	Soluble
	PARTITION CO-EFFICIENT, n	-OCTANOL / WATER: No data.
	AUTO-IGNITION TEMPERATI	JRE: No data available.
	DECOMPOSITION TEMPERA	TURE: Not determined
	VISCOSITY:	Not determined
	SPECIFIC GRAVITY (Water =	1): 1.18 g/ml
	DENSITY:	9.84 lbs/gal   1.18 kg/L
Note	: These physical data are typ	bical 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

## **10.3 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**
- Excessive heat.
- 10.5 INCOMPATIBILE MATERIALS
- Strong oxidizers.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to: oxides of carbon, oxides of sulfur, ammonia, and oxides of nitrogen.

## 11 TOXICOLOGICAL INFORMATION

## **11.3 LIKELY ROUTES OF EXPOSURE**

Ingestion. Skin contact, eye contact. LC<sub>50</sub> (rat): >0.16 mg/L (Boric Acid) 4HR LD<sub>50</sub> Oral (rat): 2,660 – 5,140 mg/kg (Boric Acid) LD<sub>50</sub> Dermal (rat): >2,000 mg/kg (Boric Acid) 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



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#### 12 **ECOLOGICAL INFORMATION**

### **12.3 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.

# **Ecotoxicological Data**

Components	Species	Test Results	
Boric Acid (CAS: 10043-35-3)	Oncorhynchus mykiss	100 – 150 mg/L - 96hr LC <sub>50</sub>	
	Daphnia magna	133 – 226 mg/L - 48hr 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: The product is not readily biodegradable

- **12.3 BIOACCUMULATIVE POTENTIAL** 
  - Bioaccumulation: No data available.

## **12.4 MOBILITY IN SOIL**

This product is water soluble and may disperse in soil. **12.5 OTHER ADVERSE EFFECTS** 

Assessment: No data available.

#### 13 **DISPOSAL CONSIDERATIONS**

### **13.1 WASTE TREATMENT METHODS**

Do not reuse container. Completely empty container into application equipment. Triple rinse (or equivalent), adding rinsate 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/. or by reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed by storage or disposal.

#### **TRANSPORT INFORMATION** 14

## **14.3 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

1

0

0

- Health
- Flammability Instability
- 2 Moderate 3 High

0

1

4

Least

Slight

Severe

HMIS

- Health 1
- Flammability 0
- 0 Reactivity В PPE



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SARA Hazard Notification/Reporting SARA Title III Hazard Category:

Immediate Delayed N

Fire Reactive

N

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Sudden Release of Pressure \_\_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 harm.

**OTHER INFORMATION** 16

SDS STATUS: Section 9 revised PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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