

 REAX™ BORON SUPERSEDES: 09/27/19

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: REAX™ BORON

1.2 RECOMMENDED USE: CROP NUTRIENT SOLUTION

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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Damage/Irritation	Category 2A	H319
Acute Toxicity/Oral	Category 4	H302
Skin Corrosion/Irritation	Category 2	H315
Toxic To Reproduction	Category 1B	H360

2.2 Label elements





Signal word: DANGER

Hazard Statement: H319 – Causes serious eye irritation.

H302 – Harmful if swallowed. H353 – Causes skin irritation.

H360 - May damage fertility or the unborn child.

Precautionary

Statement: P264 – Wash hands and face thoroughly after handling.

(Prevention): P280 – Wear protective gloves/protective clothing/eye protection/face protection.

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

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

Precautionary Statement:

(Response): P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P301+P312: IF SWALLOWED: Call a poison center or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P321 – Specific treatment (see First Aid on the product label).
P332+P313 – If skin irritation occurs: Get medical advice/attention.
P362 – Take off contaminated clothing and wash it before reuse.
P308+P313 – If exposed or concerned: Get medical advice/attention.

Precautionary Statement:

(Storage): P405 – Store locked up.

Precautionary Statement:

(Disposal): Dispose of contents/container at an approved waste disposal facility.



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2.3 Other hazards None known.

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Concentration [%] 60 - 90Boric Acid 10043-35-3 I eonardite 1415-93-6 < 2.5 Trace Gluconic Acid 526-95-4 Water 7732-18-5 15 - 35

Ingredients not precisely identified are proprietary or non-hazardous.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

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.

Ingestion: 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.

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: Ingestion: Harmful if swallowed.

Eyes: Causes serious eye irritation.

Skin: Causes skin irritation.

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.



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5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), 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, including oxides of carbon, oxides of sulfur,

ammonia, silicon, sodium, and oxides of nitrogen.

5.3 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

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deny unnecessary entry.

6. 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

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.

7. 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 above 40 °F (4.4 °C). Store in original containers only. KEEP CONTAINER TIGHTLY

CLOSED WHEN NOT IN USE. Store in a cool, dry, well-ventilated place, preferably in a locked storage area away from children, feed and food products, and seed. Do not contaminate

water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

 Components
 Type
 Value

 Borate compounds, inorganic
 TWA
 2 mg/m³ (Measured as inhalable fraction of the aerosol)

 STEL/CEIL (C)
 6 mg/m³ (Measured as inhalable fraction of the aerosol)

U.S. Workplace Exposure Level (OSHA) PELs

Components Type Value

Not listed.

Biological limit values

ACGIH Biological Exposure Indices

Components Value Specimen

No listings



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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 eyewash station and safety shower.

Individual Protection Measures:

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

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

socks.

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

> MSHA/NIOSH approved respirator with approved 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 protection if exposure concentrations are

PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid

ODOR: Slight ammonia. ODOR THRESHOLD: No data available.

COLOR: Black 8.2 (neat) pH:

MELTING POINT / FREEZING POINT: No data available **BOILING POINT:** > 212°F (> 100 °C) FLASH POINT: Does not flash. FLAMMABILITY (solid, gas): No data available.

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

VAPOR PRESSURE: 23 hPa (17 mm Hg).

SOLUBILITY: Soluble

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

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available. VISCOSITY: No data available. SPECIFIC GRAVITY (Water = 1): 1.36 g/ml

11.4 lbs./gal / 1.36 kg/L BULK DENSITY:

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

Will not polymerize.

10.4 CONDITIONS TO AVOID

None known

10.5 INCOMPATIBILE MATERIALS

Strong acids, strong oxidizing agents, strong reducing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

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



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11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact. Ingestion. LC₅₀ (rat): > 0.16 mg/L (4 HR). LD₅₀ Oral (rat): 2660 mg/kg LD₅₀ Dermal (rabbit): >2000 mg/kg.

Acute Toxicity Estimates: No data available.
Skin Irritation (rabbit): Causes skin irritation.
Eye Irritation (rabbit): Causes serious eye irritation.

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: IARC: 2A

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

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.

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Ecotoxicological Data

 Species
 Test Results

 Boric Acid
 Carassius auratus
 1020 mg/L - 72-hour LC₅₀

 Daphnia magna
 115 - 153 mg/L - 48-hour EC₅₀

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 http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.



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14	TRANSPORT INFORMATION
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14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED

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**

> 0 1 Health Least Health 0 Flammability Slight 0 Flammability Instability 2 Moderate 0 Reactivity 3 PPE

High В Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: **Immediate** Fire Sudden Release of Pressure Ν Delayed Reactive

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not applicable.

16 OTHER INFORMATION

SDS STATUS: Section 1 revised

PREPARED BY: Product Stewardship and Regulatory Affairs

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REVIEWED BY: Safety, Health and Environment

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