

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Wuxal® Boron
Supplier:	Precision Laboratories, LLC 1429 S. Shields Drive Waukegan, IL 60085
Product Use:	Foliar Nutrient Suspension
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin Irritation, Category 2, H315

Eye Irritation, Category 2B, H320

Reproductive Toxicity, Category 1B, H360



H315 H360

Signal Word: Danger

Hazard Statements:

H315: Causes skin irritation.

H320: Causes eye irritation.

H360: May damage fertility or the unborn child.

Precautionary Statements:

Prevention

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P201: Obtain special instructions before use.

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

P264: Wash protective equipment and work clothes thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice or attention.

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

P321: Treat symptomatically.

P332+P313: If skin irritation occurs: Get medical advice or attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

Storage

P405: Store locked up.

Disposal

P501: Dispose of contents/container to disposal plant in accordance with federal, state and local regulations.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
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The fertilizer composition is a non-hazardous preparation.

4. FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN: Wash affected area with plenty of soap and water. Use tepid water if available. If skin irritation occurs: Get medical advice or attention. Treat symptomatically. Take off contaminated clothing and wash it before reuse.

IF INHALED: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

IF EXPOSED OR CONCERNED: Get medical advice or attention.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Other Effects: This product is not a carcinogen by NTP, OSHA and ACGIH.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Water spray, foam, CO₂, or dry chemicals may be used in areas where this product is stored.

Specific Hazards: Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Products of Combustion: The material itself is non-flammable. Fire may liberate hazardous vapors. If larger quantities of the product are on fire, the formation of nitrous gases, ammonia and phosphoric acid gases is possible.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Wear personal protective equipment (PPE) as referenced in Section 8 below. Control spill with adsorbent pads or booms. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal. Product is slippery under foot; flush smooth surfaces thoroughly.

Disposal: Dispose of collected waste in accordance with federal, state and local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Store locked up. Keep container sealed when not in use. Safety goggles and eyewash recommended. USDA-accepted nitrile (CFR-20) or neoprene rubber (CFR-21) recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact. Product should be stored in a dry place. Do not store together with food, beverage and animal feed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: None

Eye/Face Protections: Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear chemical-resistant gloves, long-sleeved shirt, pants, socks and shoes to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

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Respiratory Protection: Not required under normal use conditions with good ventilation. Protect against spray mists.
General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.
Note: When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed. Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.
Personal Protection in Case of Large Spill: Splash goggles, full suit, boots and gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green aqueous crystal suspension	UEL:	N/D
Odor:	Product-specific	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	6.8	Vapor Density:	N/D
Melting Point:	N/D	Relative Density:	1.37 sg
Freezing Point:	N/D	Solubility in water:	Approx. 1.67 lbs/gal
Boiling Point:	N/D	Partition Coefficient:	N/D
Flash Point:	N/D	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	N/D	VOC:	N/D

10. STABILITY AND REACTIVITY

Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Condition to Avoid: Avoid direct sunlight and prevent product from drying.
Incompatible Materials: No restrictions.
Hazardous Decomposition Products: No decomposition if used correctly. The product is stable under normal conditions.
Thermal Decomposition Products: If larger quantities of the product are on fire, the formation of nitrous gas, ammonia and phosphoric acid gases is possible.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available for this product.

The following applies to boric acid:

LD50 (oral, rat): 2660 mg/kg .

LD50 (dermal, rat): >2000 mg/kg .

12. ECOLOGICAL INFORMATION

No ecological information is available for this product.

The following applies to boron compounds in general:

biological effects: boric acid developing as a result of hydrolysis toxic for aquatic organisms; fish: *Gambusia affinis* 96 h. LC50: 5600 mg/l;

24 h. LC50:1800 mg/l;

plants: as toxic from 1 mg/l

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

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No ecological problems are to be expected when the product is handled and used with due care and attention.

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions: Dispose of material in compliance with applicable federal, state and local environmental regulations. Recycle or rework material if at all possible. Incinerate material at an approved facility, or treat at an acceptable waste treatment facility or municipal waste treatment plant after proper testing and approval of waste samples.

Container Reuse: An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse. **Dispose of container to a disposal plant in accordance with federal, state and local regulations.**

14. TRANSPORT INFORMATION

DOT Status (Highway and rail): Not Regulated

IATA Status (Air): Not Regulated

Marine Pollutant: No

15. REGULATORY INFORMATION

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

SARA HAZARD: Title III, Section 313: Contains no Section 313 listed substances subject to reporting.

AICS (Australia): Components listed

DSL (Canada): Components listed

EINECS (Europe): Components listed

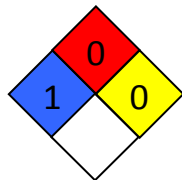
TSCA: Components listed

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



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WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, LLC MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. THE WUXAL TRADEMARK AND MANUFACTURING PROCESS IS UNDER LICENSE OF AGLUKON SPEZIALDÜNGER, DÜSSELDORF, GERMANY.

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N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.