1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PBX
Supplier: Precision Laboratories, LLC
1429 S. Shields Drive
Waukegan, IL  60085
Product Use: Rhizobium Protector Binder Extender
Emergency telephone number: (Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call: (847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification: None
Signal Word: None
Hazard Statements: None
Precautionary Statements:
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blend of adhesives &amp; nutrients</td>
<td>Proprietary</td>
<td>N/E</td>
<td>N/E</td>
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</tr>
</tbody>
</table>

4. FIRST AID MEASURES

IF SWALLOWED: It is recommended to induce vomiting if a great volume has been swallowed (>500-mL).
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.
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 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: 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, class A extinguisher.
Specific Hazards: When stored under normal conditions, there is no risk of fire or explosion.
PPE and Precautions: Fire fighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
Additional Fire and Explosion Data: None.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Wear personal protective equipment (PPE). 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. Ventilate area and wash spill site after material pickup is complete.
Disposal: Product is slippery under foot; flush smooth surfaces thoroughly. Dispose of collected waste in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling: Keep container sealed when not in use. Safety goggles eye wash are recommended. USDA-accepted nitrile (CFR-20) or neoprene rubber (CFR-21) recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Precautions to be Taken in Storage: Do not expose to sunlight, rain or other other meteorological agent that could alter the original characteristics of the product. Do not transport and/or store together with products that could emit toxic fumes. Transport and store at air temperature from 10 to 30°C. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Component Exposure Limits: N/D

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

Skin Protection: Wear chemically impervious (rubber) 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.

Respiratory Protection: Not required under normal use conditions with good ventilation. Protect against spray mists. Respirator recommended in areas of poor ventilation.

General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.

Note: 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. Follow manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Concentrated aqueous solution</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
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<tr>
<td>pH (neat)</td>
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<tr>
<td>Melting Point</td>
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<tr>
<td>Freezing Point</td>
<td>N/A</td>
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<tr>
<td>Boiling Point</td>
<td>&gt;100°C</td>
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<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>UEL</td>
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<tr>
<td>LEL</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Relative Density</td>
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<tr>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>VOC</td>
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<tr>
<td>Viscosity</td>
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10. STABILITY AND REACTIVITY

Stability: Stable at temperatures between 5 and 30°C and without direct incident solar radiation.

Possibility of Hazardous Reactions: Non-reactive.
Condition to Avoid: Store in accordance with Section 7 above. Avoid direct sunlight and prevent product from drying.

Incompatible Materials: The product does not react with the packaging material if the appropriate handling and conditions are kept.

Thermal Decomposition Products: None known.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Inhalation: Not hazardous.

Eyes: A prolonged contact must be avoided although it is not hazardous.

Skin: Not hazardous.

Ingestion: The product is considered not toxic based on the results of the ingestion under the conditions of toxicity in mice.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Specific information is not provided, but given the innocuous nature of the product, it is considered not ecotoxic.

13. DISPOSAL CONSIDERATIONS

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

Disposal Instructions: Recycle or rework material if at all possible. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal in compliance with applicable federal, state and local environmental regulations.

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 all containers and packaging in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of the smoke.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail): Not Regulated

IATA Status (Air): Not regulated

Marine Pollutant: No

15. REGULATORY INFORMATION

SARA HAZARD: No

TSCA: Components listed

16. OTHER INFORMATION

HMIS Hazard Rating

<table>
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<tr>
<th></th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>PERSONAL PROTECTION</th>
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<td>HEALTH</td>
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<td>FLAMMABILITY</td>
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<td>REACTIVITY</td>
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<td>PERSONAL PROTECTION</td>
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NFPA Rating

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Last Updated: November 27, 2014
Date Prepared: August 14, 2014
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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.