

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Border™ Max**
Supplier: Precision Laboratories, LLC
1429 S. Shields Drive
Waukegan, IL 60085
Product Use: Adjuvant
Emergency telephone number: (Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call: (847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Eye Irritation, Category 2B, H320

Signal Word: Warning

Hazard Statements:

H320: Causes eye irritation.

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.

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

Response

P305+P351+P338: If in eyes: Rinse cautiously 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Proprietary blend				>99%
Glycerin	56-81-5			<1%

4. FIRST AID MEASURES

IF SWALLOWED: Call a POISON CENTER/doctor or Chemtrec if person feels unwell. 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 any fluids to an unconscious person.

IF ON SKIN: Wash affected area with plenty of soap and water. Cold water may be used. If skin irritation occurs: Get medical advice or attention. Call a POISON CENTER/doctor or Chemtrec if person feels unwell.

IF INHALED: Move person to fresh air and keep comfortable for breathing. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. If experiencing respiratory symptoms: Call a POISON CENTER/doctor or Chemtrec.

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.

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.

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5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Carbon dioxide or dry chemical for small fires. Dry chemical, alcohol foam, universal foam, or water spray for large fires. Water jet not recommended (frothing possible).

Specific Hazards: Product will burn under fire conditions. Closed containers may rupture (due to pressure buildup) when exposed to extreme heat.

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

Products of Combustion: Hydrogen cyanide; ammonia; oxides of nitrogen, sulfur, carbon and silicon.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Wear splash goggles, full suit, boots and gloves. 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. Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies. Prevent material from entering public sewer system or waterways.

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

Handling Procedures: Keep away from heat, sparks and flame. Keep container closed. Keep away from heat, sparks and flame. Keep container closed. Wear appropriate equipment and clothing to prevent repeated or prolonged skin contact as referenced in Section 8 below. Use in areas with adequate mechanical exhaust ventilation, or wear respirator. Protect product from freezing. Keep containers sealed when not in use. Store in original container only.

Storage Procedures: Product should be stored in temperatures between 30 and 120°F (4 to 49°C). Partially used containers should be resealed between uses for maximum storage stability.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: **Glycerin (TWA):**
ACGIH: 10 mg/cu m
OSHA: 5 mg/cu m
OSHA: 10 mg/cu m

Engineering measures: General area dilution/exhaust ventilation may be used in areas where the potential for excessive exposure exists. 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/Face Protections: Wear protective eyewear. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear barrier laminate, neoprene rubber, nitrile rubber or Viton® 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: Wear respirator in areas of poor ventilation. Protect against spray mists.

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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 liquid	UEL:	N/D
Odor:	Ammonia-like odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	6–7.5 at 1 wt/wt%	Vapor Density:	N/D
Melting Point:	N/D	Specific Gravity:	>1.2 at 25°C (77°F)
Freezing Point:	<-16°C (3°F)	Solubility in water:	Dispersible
Boiling Point:	~212°F (100°C) at 1 atm	Partition Coefficient:	N/D
Flash Point:	>199.4°F (93°C) PMCC	Autoignition Temperature:	N/D
Evaporation Rate (BuAc=1):	<1	Decomposition Temperature:	N/D
Flammability:	N/D	Viscosity:	4000 cps at 25°C

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Condition to Avoid: Heat, open flame, ignition sources.

Incompatible Materials: Strong bases, strong oxidizing agents, acid anhydrides, chlorates, nitrates, alkali metals.

Hazardous Decomposition Products: Thermal decomposition may produce hydrogen cyanide, ammonia, oxides of nitrogen, sulfur, carbon, and silicon.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD₅₀: >5,050 mg/kg (albino rats)

Acute Eye Irritation: Minimally irritating (albino rabbits)

Acute Dermal Irritation: Non-irritating

Acute Dermal Toxicity: LD₅₀ > 5,050 mg/kg (albino rats)

Acute Inhalation Toxicity: It is considered that Border Max, due to its physical nature, cannot be aerosolized at an exposure concentration high enough to provide meaningful acute inhalation toxicity data (Acute Inhalation Toxicity in Rats for a similar product Border Xtra 8L, Study ID 16366-12, performed by Stillmeadow Laboratory, Sugar Land, TX).

Component Carcinogenicity: This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

12. ECOLOGICAL INFORMATION

No ecological information is available for this product.

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

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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.

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 hazard classes: Acute health hazard.

State: This product contains the following components that are regulated under California Proposition 65:
Acetic acid, dichloro- (cancer list, reproduction list)

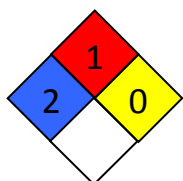
WHMIS: N/D

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



Last Updated: November 12, 2014

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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.

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.