

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Border™ AQ**
Supplier: PRECISION LABORATORIES, LLC
1429 S. SHIELDS DRIVE
WAUKEGAN, IL 60085
Product Use: Drift Reduction
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>Weight %</u>
Ammonium sulfate	7783-20-2	< 45.4%
2-Hydroxypropyl Guar gum	39421-75-5	< 45.4%
Alkyl dimethyl ammonium acetate	Proprietary	< 45.4%

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: Alcohol foam, dry chemical, CO₂, water spray. Water jet not recommended due to frothing.

Specific Hazards: Product will burn under fire conditions.

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

Hazardous Decomposition 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 NIOSH/MSHA-approved respirator, 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. Spills may be reportable to the National Response Center (800-424-8802) in the U.S.

Disposal: Dispose of collected waste in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Handling Procedures: Keep away from heat, sparks and flame. Keep container closed. Avoid direct or prolonged contact with skin or eyes. 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.

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

OSHA and ACGIH TWA: 10 mg/cu m.

Eye/Face Protections: Wear protective eyewear. Contact lenses should not be worn when working with chemicals.

Skin Protection: To minimize skin contact, wear: long-sleeved shirt; long pants; socks; shoes; barrier laminate, neoprene rubber, nitrile rubber or Viton® gloves. 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: Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid	UEL:	N/D
Odor:	Ammonia-like odor	LEL:	N/D
Odor Threshold:	N/A	Vapor Pressure:	N/D
pH:	6 to 7 at 1 w%	Vapor Density:	N/D
Melting Point:	N/D	Relative Density:	10.01 lbs/gallon
Freezing Point:	<-16°C (3°F)	Solubility:	Dispersible in water
Boiling Point:	~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:	3500 cps at 25°C

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10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Extreme heat, open flame and ignition sources.
Incompatible Materials:	Strong bases, strong oxidizing agents, acid anhydrides, chlorates, nitrates and alkali metals.
Hazardous Decomposition Products:	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:	Mildly irritating (albino rabbits)
Acute Dermal Irritation:	Non-irritating (albino rabbits)
Acute Dermal Toxicity:	LD50 > 5,050 mg/kg (albino rats)
Acute Inhalation:	It is considered that Border AQ, 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:	No data is available for this product.

12. ECOLOGICAL INFORMATION

No ecological data 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 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-; Ethylene oxide (cancer list, reproduction list) Dioxane; Propylene oxide (cancer list)
WHMIS:	N/D

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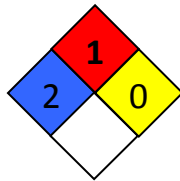
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16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



Last Updated: November 12, 2014

Date Prepared: October 25, 2013

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.