

**LuBoron™**  
**Boron CLS Bond®**

**MATERIAL SAFETY DATA SHEET**

DATE: 05.29.01

**SECTION I – SOURCE AND NOMENCLATURE**

**Manufacturer's Name**

LuBoron, LLC

**Emergency Telephone No.**

(866) 582-6766

**Address**

1147 River Road  
Charlottesville, VA 22901

**Chemical Family**

BORON

**Trade Name and Synonyms**

**BORON-BASED MOLD RELEASE – BORON**

**Chemical Formula: Mixture**

**Chemical Name: Water-Based Mixture of Boron Derivatives**

**SECTION II – OSHA REGULATED INGREDIENTS**

CAS Regulation No: Mixture ----- Product Number BA-1, BABN-1

Product and Components are entered on EPA's TSCA Inventory: NO

This product is in U.S. commerce and is not listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals.

<b><u>Ingredients</u></b>	<b><u>CAS No.</u></b>	<b><u>%by Wt.</u></b>	<b><u>OSHA PEL</u></b>	<b><u>ACGIH TLV</u></b>	<b><u>UNITS</u></b>
Water	7732-18-5	>75	NE	NE	NE
Boron & Derivatives		<23	10 (T)	10 (T)	Mg/M3
Surfactants		<2	10 (T)	10 (T)	Mg/M3

**SECTION III – PHYSICAL DATA**

**Boiling Point:** 212F (Water)      **Vapor Pressure:** Not Applicable      **Vapor Density:** Air=1): Not Applicable  
**Viscosity:** 4.8cSt @ 104 F (40c)      **Evaporation Rate:** (Butyl Acetate=1) <<      **Percent Volatile by Volume:** 60-65  
**Solubility in Water:** 60-65      **Specific Gravity:** (H<sub>2</sub>O=1): 10.4 Lbs/Gal (Water)  
**Appearance/Odor:** WHITE LIQUID/NONE

**SECTION IV – FIRE AND EXPLOSION DATA**

**Flash Point (Method Used):** > Not Applicable (Estimated)

**Flammable Limits (% by Volume in Air):** LEL – not established  
UEL – not established

**Fire Extinguishing Media**

CO 2, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE

**Special Fire Fighting Procedures:** Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH/MSHA – approved, self-contained breathing apparatus and other protective equipment and/or garments described in Section IX if conditions warrant.

[www.luboron.com](http://www.luboron.com)

1147 River Rd., Ste. 2, Charlottesville, VA 22901 Tel. (866) 582-6766 Fax (434) 971-8401

**SECTION V – HEALTH DATA**

**Recommended Exposure Limits:** Not Established

**Acute Effects of Overexposure:**

- Eyes: IMMEDIATELY FLUSH WITH LARGE QUANTITIES OF COOL WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.
- Skin: MAY CAUSE SEVERE IRRITATION. REPEATED OR PROLONGED CONTACT MAY CAUSE DEFATTING OF THE SKIN, RESULTING IN DERMATITIS.
- Inhalation: MAY CAUSE IRRITATION TO NOSE, THROAT, OR LUNGS, HEADACHE, NAUSEA, DIZZINESS, NERVOUSNESS MAY OCCUR.
- Ingestion: MAY CAUSE IRRITATION TO INTESTINES, MAY CAUSE HEADACHE, NAUSEA, UNCONSCIOUSNESS. IF SWALLOWED, MAY BE ASPIRATED, RESULTING IN INGLAMMATION AND POSSIBLE FLUID ACCUMULATION IN THE LUNGS.
- Ingestion: MAY CAUSE IRRITATION TO INTESTINES. MAY CAUSE HEADAHCE, NAUSEA, UNCONSCIOUSNESS. IF SWALLOWED , MAY BE ASPIRATED, RESULTING IN INFLAMMATION AND POSSIBLE FLUID ACCUMULATION IN THE LUNGS.

**Sub chronic and Chronic Effects of Overexposure:** Inhalation of vapors may cause carboxyhemoglobinemia. Chronic exposure to carbon monoxide causes fatigue, poor memory, loss of sensation in fingers, visual disturbances and insomnia. Carboxyhemoglobinemia is frequently misdiagnosed as flu.

Sensitivity sub-populations to the inhalation of carbon monoxide exist. Carbon monoxide displaces oxygen in the bloodstream and therefore can adversely affect people with pre-existing heart disease, pregnant women, and smokers.

**Other Health Effects:** No known applicable information.

**Health Hazard Categories:**

	Animal	Human		Animal	Human
Known Carcinogen			Toxic		
Suspect Carcinogen			Mild Corrosive		
Mutagen			Irritant	X	X
Teratogen			Target Organ Toxin		
Allergic Sensitizer			Specify	Lung – Aspiration Hazard	

**Emergency and First-Aid Procedures**

- Eye: FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.
- Skin: IMMEDIATELY WAS SKIN W/SOAP AND WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.
- Inhalation: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN IF BREATHING CEASES, ADMINISTER ARTIFICIAL RESPIRATION FOLLOWED BY OXYGEN. SEEK IMMEDIATE MEDICAL ATTENTION.
- Ingestion: DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION.

**Note to Physician:** Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

## SECTION VI – HEALTH CLASSIFICATION

This product meets the following hazard definition(s) as defined by the occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

<input checked="" type="checkbox"/> Combustible Liquid	<input type="checkbox"/> Flammable Aerosol	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Compressed Gas	<input type="checkbox"/> Explosive	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Flammable Gas	<input checked="" type="checkbox"/> Health Hazard (Section V)	<input type="checkbox"/> Unstable
<input type="checkbox"/> Flammable Liquid	<input type="checkbox"/> Organic Peroxide	<input type="checkbox"/> Water Reactive
<input type="checkbox"/> Flammable Solid		

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1210.

**Additional Comments; SARA 313:** This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section I)

## SECTION VII – REACTIVITY DATA

**Stability:** STABLE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR

**Conditions To Avoid:** NONE

**Incompatibility (Materials to Avoid):** OXYGEN AND STRONG OXIDIZING AGENTS

**Hazardous Polymerization:** WILL NOT OCCUR

**Conditions to Avoid:** NOT ESTABLISHED

**Hazardous Decomposition of Products:** NONE THAT ARE KNOWN

## SECTION VIII – SPILL, LEAK, AND DISPOSAL PROCEDURES

**Precautions Required if Material is Released or Spilled:** The components of the product are inert. The product is not expected to present any environmental hazard.

## SECTION IX – HANDLING AND STORAGE PRECAUTIONS

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, mist, fume, or dust. Do not swallow. May be aspirated into lungs. Wear protective equipment and/or garments described in Section IX if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with adequate ventilation.

Store in well-ventilated area. Store in closed container.

## SECTION X – PERSONAL PROTECTION INFORMATION

**Ventilation Requirements:** USE ADEQUATE VENTILATION.

### **Protective Equipment**

Eye: FOR SPLASH PROTECTION, USE CHEMICAL GOGGLES AND FACE SHIELD.

Skin: USE GLOVES RESISTANT TO THE MATERIAL BEING USED (i.e. NEOPRENE OR NITRILE RUBBER). USE PROTECTIVE GARMENTS TO PREVENT EXCESSIVE SKIN CONTACT.

Respirator: NOT GENERALLY REQUIRED UNLESS NEEDED TO PREVENT RESPIRATORY OF SPILL OR LEAK RESULTING IN UNKNOWN CONCENTRATION. USE NIOSH/MSHA – APPROVED SUPPLIED AIR RESPIRATOR.

**NOTE:** The Personal Protection Information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

## SECTION XI – PROTECTION REQUIRED FOR WORKING ON CONTAMINATED EQUIPMENT

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section VIII if exposure conditions warrant.

## SECTION XII – PROTECTION REQUIRED FOR WORKING ON CONTAMINATED EQUIPMENT

**Shipping Name:** Boron/water solution

**Hazard Class:** Not currently regulated under DOT

**Marking:** None

**Label:** None

**Placard:** None

**Shipping Description:** Not Applicable

**Hazardous Substance/RQ:** Not Applicable

## SECTION XIII – RCRA CLASSIFICATION

UNADULTERATED PRODUCT AS A WASTE

Prior to disposal, consult your environmental contact to determine if TLCP (Toxicity Characteristic Leaching Procedure, EPA, Test Method 1311) is required. Reference 40 CFR Part 261.

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