



Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Boric Acid Solution, 4% Indicating (with Bromocresol Green-Methyl Red Indicator)  
**NCL Catalog Number** B-13A  
**Product Description** Laboratory chemical  
**Supplier**  
NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454  
P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)  
Biramwood, WI 54414 **Email:** [nclabs@nclabs.com](mailto:nclabs@nclabs.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Reproductive Toxicity Category 1B

**Signal Word** Danger



**Hazard Statements**

H360 May damage fertility or the unborn child.

**Precautionary Statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container to comply with local, state and federal regulations.

**Other Hazards Not Contributing to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Identity** Not applicable

**Common Name** Not applicable

Mixture

Name	CAS #	Approximate %
Water	7732-18-5	95.998
Boric Acid	10043-35-3	4
Bromocresol Green, Sodium Salt	62625-32-5	0.001
Methyl Red, Sodium Salt	845-10-3	0.001

**SECTION 4: FIRST AID MEASURES**

Description of First Aid Measures

**General First Aid Measures** Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.

**If Inhaled** Remove person to fresh air and keep comfortable for breathing. Allow victim to rest.

**In Case of Skin Contact** Remove contaminated clothing and wash exposed skin with mild soap and water. Rinse with warm water.

**In Case of Eye Contact** Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops.

**If Swallowed**

Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

**Most Important Symptoms/Effects Acute and Delayed**

**Symptoms/Injuries**

May damage fertility. May damage the unborn child.

**After Inhalation**

May cause respiratory irritation.

**After Skin contact**

Slight irritation.

**After Eye Contact**

May cause slight irritation.

**After Ingestion**

Nausea. Vomiting.

**Chronic Symptoms**

Affection of the renal tissue. Change in the haemogramme/blood composition.

**Indication of Immediate Medical Attention and Special Treatment Needed**

Seek medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media**

Foam. Dry powder. Sand. Carbon dioxide. Water spray.

**Unsuitable Extinguishing Media**

Do not use high pressure water stream.

**Special Hazards Arising from the Chemical**

No additional information available.

**Special Protective Actions for Fire-Fighters**

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions**

Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Isolate from fire, if possible, without unnecessary risk.

**Environmental Precautions**

Prevent entry to surface and ground waters.

**Methods and Materials for Containment and Cleaning Up**

Clean up spills with inert solids. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

**Conditions for Safe Storage Including any Incompatibilities**

Keep in a tightly closed container, stored in a cool, dry, ventilated area.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

<b>Boric Acid (10043-35-3)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>

**Appropriate Engineering Controls**

Provide adequate general ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures**

**Eye/Face Protection**

Avoid all unnecessary exposure.

Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

<b>Skin Protection</b>	Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.
<b>Respiratory Protection</b>	Wear appropriate mask.
<b>Other Information</b>	Do not eat, drink or smoke when using this product.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Color</b>	Dark red
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point/Freezing Point</b>	Not determined
<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	Extremely high and low temperatures
<b>Incompatible Materials</b>	Potassium, acetic anhydride
<b>Hazardous Decomposition Products</b>	When heated to decomposition, can emit toxic gases, carbon dioxide, carbon monoxide and boron.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	Not classified
<b>Boric Acid (10043-35-3)</b>	
<b>LD50 oral rat</b>	2500 mg/kg
<b>LD50 dermal rabbit</b>	2000 mg/kg
<b>Water (7732-18-5)</b>	
<b>LD50 oral rat</b>	≥90000 mg/kg
<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	May damage fertility or the unborn child.

<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available
<b>Symptoms/Injuries After Inhalation</b>	May cause respiratory irritation.
<b>Symptoms/Injuries After Skin Contact</b>	Slight Irritation
<b>Symptoms/Injuries After Eye Contact</b>	May cause slight irritation.
<b>Symptoms/Injuries After Ingestion</b>	Nausea. Vomiting.
<b>Symptoms/Injuries Upon Intravenous Administration.</b>	Not available
<b>Chronic Symptoms</b>	Affection of the renal tissue. Change in the haemogramme/blood composition.
<b>Other Information</b>	Not available

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Methods of Disposal**

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with local, state and federal regulations.
<b>Other Information</b>	Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	Not applicable
<b>UN Shipping Name</b>	Not applicable
<b>Transport Hazard Class(es)</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

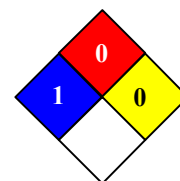
<b>Boric Acid (10043-35-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Bromocresol Green, Sodium Salt (62625-32-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Methyl Red, Sodium Salt (845-10-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**SECTION 16: OTHER INFORMATION**

Revision Date: 04/03/2015

**NFPA Hazards**

**Health Hazard** 1: May cause irritation; minimal residual injury.  
**Fire Hazard** 0: Materials that will not burn.  
**Reactivity/Instability** 0: Normally stable, even under fire exposure conditions, and is not reactive with water.



**HMIS III Rating**

**Health** 1: Irritation or minor reversible injury possible.  
**Flammability** 0: Materials that will not burn.  
**Physical Hazard** 0: Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.  
**Personal Protection** C

<b>B-13A</b>	
<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Physical Hazard</b>	<b>0</b>
<b>Personal Protection</b>	<b>C</b>

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**END OF SAFETY DATA SHEET**