

## Safety Data Sheet

# NutriSol 9% Boron

SDS Number: 11312  
 SDS Prepared: 03/21/1999  
 SDS Version: 3.0  
 Version Date: 09/03/2013

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NutriSol 9% Boron  
**CHEMICAL NAME:** Polyborate  
**CHEMICAL FAMILY:** Polyborate  
**SYNONYMS:** Boron  
**COMMON NAME:** Liquid Boron  
**EPA REGISTRATION NUMBER:** Not Regulated

**Manufactured by:**  
 Coastal AgroBusiness Inc.  
 PO Box 856  
 Greenville, NC 27835  
 Phone: 1-800-635-1388

**Emergency Telephone Numbers**  
 Chemtec (24 hours)  
 1800-424-9300  
 Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time)  
 1-800-635-1388

### 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION-** Avoid contact with eyes, skin, and clothing. May be harmful if swallowed or inhaled. Do not take internally.

This product is a clear, colorless liquid with a slight odor. Primary routes of entry are inhalation, eye contact and skin contact

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL/TLV</u>
Polyborate compound*	100%	Proprietary	NOL/NOL

\*Polyborate compound derived from boric acid and mixture of cyclic amines (9%Boron(B)). All ingredients in this product are listed in the T.S.C.A. Inventory. This product contains no listed hazardous ingredients.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least fifteen minutes, holding eyelids apart to ensure flushing of the entire eye surface. Do not let victim rub eyes. Seek medical attention.  
**SKIN:** Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.  
**INGESTION:** Call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.  
**INHALATION:** Remove person from area of exposure. Give artificial respiration if necessary. If breathing is difficult, give oxygen if qualified operator is available. Seek immediate medical attention.

## 5. FIRE FIGHTING MEASURES

<b>FLASH POINT (°F/Test Method):</b>	>200°F
<b>FLAMMABLE LIMITS (LFL &amp; UFL):</b>	Not determined
<b>EXTINGUISHING MEDIA:</b>	Foam, CO <sub>2</sub> , Dry Chemical, and Water; Class BC, ABC Fire Extinguisher
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	None known
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Clear fire area of unprotected personnel. Cool fire exposed containers with water. Attack from upwind.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	None known

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

**Small spills:** Soak up with absorbent and sweep or shovel into a suitable container for recovery or disposal.

**Large Spills:** Control and contain. Dike the spill to minimize contaminated area and facilitate salvage or disposal. Recover material for use, reprocessing or disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

<b>HANDLING:</b>	Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handling. Wash hands before breaks and at the end of work. Keep from freezing.
<b>STORAGE:</b>	Keep container closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>THRESHOLD LIMIT VALUE:</b>	NOL
<b>PERMISSIBLE EXPOSURE LIMIT:</b>	NOL
<b>SIGNS AND SYMPTOMS OF EXPOSURE:</b>	Irritation of skin and eyes. Contact with eyes is painful and irritating. Overexposure: Prolonged skin contact may cause moderate irritation. May cause severe eye injury.
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:</b>	Preexisting eye and skin disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.
<b>PRIMARY ROUTES OF ENTRY:</b>	Dermal
<b>ENGINEERING CONTROLS:</b>	Use adequate exhaust ventilation to prevent inhalation of product vapors.
<b>RESPIRATORY PROTECTION:</b>	None required with adequate ventilation. Use NIOSH-approved respiratory protection equipment if misty conditions exist.
<b>EYE PROTECTION:</b>	Avoid contact with eyes. Wear full face shield or chemical splash goggles when handling. Do not wear contact lenses.
<b>SKIN PROTECTION:</b>	Avoid contact with skin. USDA accepted nitrile or neoprene rubber gloves are recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Clear/Yellow tinge, slightly viscous liquid w/ a mild amine odor.
<b>SPECIFIC GRAVITY: (Water=1):</b>	1.119
<b>VAPOR PRESSURE:</b>	0.2 mm Hg
<b>VAPOR DENSITY (Air = 1):</b>	2.5

<b>% VOLATILITY (V/V):</b>	35%
<b>BOILING POINT:</b>	>200°F
<b>MELTING POINT:</b>	Not Applicable
<b>SOLUBILITY:</b>	Completely miscible in water
<b>pH:</b>	8.5 (10% aqueous solution)
<b>VISCOSITY @ 20°C:</b>	~2.2 cps @ 25°C

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Extreme Temperatures (above 250°C)
<b>INCOMPATIBILITY:</b>	Strong organic acids and oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	May form carbon dioxide, carbon monoxide, formaldehyde, nitrogen compounds.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE ORAL LD<sub>50</sub>:</b>	>500 mg/kg
<b>EYE IRRITATION:</b>	Severe
<b>INHALATION LC<sub>50</sub>:</b>	May irritate nasal passages and upper respiratory tract.
<b>CARCINOGENETIC POTENTIAL:</b>	This product is not carcinogenic teratogenic or mutagenic as determined by OSHA, NTP, or IARC. Danger of methemoglobin formation.
<b>ACUTE DERMAL LD<sub>50</sub>:</b>	Slight Irritation
<b>SKIN IRRITATION/SENSITIZATION:</b>	Moderate (Prolonged exposure)

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Do not reuse container. Place in trash or offer for recycling. Incinerate contaminated solids in accordance with local, state, and federal regulations.

**Waste Disposal Methods:** Do not contaminate water, food or feed by storage or disposal. Waste resulting from spills of this material are not subject to CERCLA/RCRA regulations. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable Local, State and Federal regulations.

## 14. TRANSPORTATION INFORMATION

**D.O.T. Shipping Description:** NOT REGULATED BY DOT BY HIGHWAY.  
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

## 15. REGULATORY INFORMATION

<b>NFPA &amp; HMIS Hazard Ratings:</b>	<b>NFPA</b>	<b>HMIS</b>
	2 Health	2 Health
	1 Flammability	1 Flammability
	0 Reactivity	0 Reactivity
		C PPE

**SARA Hazard Notification/Reporting  
SARA Title III Hazard Category:**

Immediate:	<u>Y</u>	Fire:	<u>N</u>
Delayed:	<u>N</u>	Reactive:	<u>N</u>
Sudden Release of Pressure:	<u>N</u>		
None			

**Reportable Quantity (RQ) under U.S.  
CERCLA:****SARA, Title III, Section 313:**

Contains no chemical subject to SARA 313

**SARA, Title III, Section 302:**

EHS

None

TPQ

10,000 lbs

**RCRA Waste Code:**

Not listed

**CA Proposition 65:**

Not listed

**16. OTHER INFORMATION****SDS STATUS:**

Updated

**REASON FOR CHANGE:**

To meet new regulatory requirements

**PREPARED BY:**

Tandy O. Dunn, Director of Health, Safety &amp; Environmental Affairs

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