

## Safety Data Sheet

# NutriSol Boron UN

SDS Number: 11313  
SDS Prepared: 12/15/1997  
SDS Version: 3.2  
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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NutriSol Boron UN  
**CHEMICAL NAME:** Polyborate and Urea Nitrogen  
**CHEMICAL FAMILY:** Polyborate Compound and Urea  
**SYNONYMS:** none  
**COMMON NAME:** Liquid Boron with Urea Nitrogen  
**EPA REGISTRATION NUMBER:** Not Regulated

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

**Emergency Telephone Numbers**  
Chemtrec (24 hours)  
1-800-424-9300  
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/Yellow tinge, slightly viscous liquid w/ a mild amine odor. Primary routes of entry are inhalation, eye contact and skin contact

### EMERGENCY OVERVIEW

#### Hazard Statements

H303 – May be harmful if swallowed

### GHS Label elements, including precautionary statements/

#### Precautionary Statements - Prevention

P102 - Keep out of reach of children  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

#### Precautionary Statements - Response

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
P330 - Rinse mouth

**Precautionary Statements - Disposal**

P501 - Dispose of contents/ container to an approved waste disposal site.

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**3. COMPOSITION INFORMATION ON INGREDIENTS**

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL/TLV</u>
Polyborate compound*	38.8%	Proprietary	NOL/NOL

\*Polyborate compound derived from boric acid and mixture of cyclic amines. Contains Urea. (3.5% Boron(B) 5% Nitrogen(N)). 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**

<b>Eyes:</b>	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.
<b>Skin:</b>	Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.
<b>Ingestion:</b>	Call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	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**

**HANDLING:** 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.

**STORAGE:** Keep container closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>THRESHOLD LIMIT VALUE PERMISSIBLE EXPOSURE LIMIT</b>	NOL
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>	Irritation of skin. Over exposure: Prolonged skin contact may cause moderate irritation.
<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 COLOR:</b>	Clear/Yellow tinge, slightly viscous liquid w/ a mild amine odor.
<b>SPECIFIC GRAVITY: (Water=1):</b>	1.119
<b>VAPOR PRESSURE:</b>	.02 mm Hg
<b>VAPOR DENSITY (Air = 1):</b>	2.0
<b>% VOLATILITY (V/V):</b>	15%
<b>BOILING POINT:</b>	>200°F
<b>MELTING POINT:</b>	Not Applicable
<b>SOLUBILITY:</b>	Completely miscible in water
<b>pH:</b>	7.5 (10% aqueous solution)
<b>VISCOSITY @ 20°C</b>	≈2.2 cps @ 25°C
<b>Note:</b>	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>	None known
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE ORAL LD<sub>50</sub>:</b>	No data available
<b>EYE IRRITATION:</b>	Non-irritant
<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>	No data available
<b>SKIN IRRITATION/SENSITIZATION:</b>	Mild (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

**NFPA & HMIS Hazard Ratings:**

**NFPA**

2 Health  
1 Flammability  
0 Reactivity

**HMIS**

2 Health  
1 Flammability  
0 Reactivity  
C PPE

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

Immediate: Y  
Delayed: N  
Sudden Release of Pressure: N  
None

Fire: N  
Reactive: N

**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  
TPQ

None  
10,000 lbs

**RCRA Waste Code:**

Not listed

**CA Proposition 65:**

Not listed

### 16. OTHER INFORMATION

**SDS STATUS:**

Updated

**REASON FOR CHANGE:**

Updated Technical Information

**PREPARED BY:**

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

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*NutriSol* **Boron UN**