

## Safety Data Sheet

# NutriSol Micro 581

SDS Number: 11318  
SDS Prepared: 03/21/1999  
SDS Version: 3.1  
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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NutriSol Micro 581

**CHEMICAL NAME:** Chelated fertilizer solution derived from Boron, Iron, Manganese, Molybdenum and Zinc Mannitol

**SYNONYMS:** Micronutrient fertilizer

**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 slight green/brown colored liquid, with a burned caramel odor. Primary route of entry is dermal.

### 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 sites

#### 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>
Chelated fertilizer solution	100%	Proprietary	NOL/NOL

### 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. 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>	Get immediate medical attention. Do not induce vomiting except by physician's order. If vomiting is inevitable, prevent aspiration by keeping victim's head below the knees. Never induce vomiting or 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>	Does not flash
<b>FLAMMABLE LIMITS (LFL &amp; UFL):</b>	Not applicable
<b>EXTINGUISHING MEDIA:</b>	Foam, CO <sub>2</sub> , Dry Chemical, and Water.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	None known
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.
<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.
<b>STORAGE:</b>	Store in original container only in a cool, well-ventilated, dry place at temperatures between 40-95°F. Do not store near food or feeds. Do not stack pallets more than two high.

### 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 moderate 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 COLOR:</b>	Slight green/brown colored liquid, burned caramel odor.
<b>SPECIFIC GRAVITY: (Water=1):</b>	Not determined
<b>VAPOR PRESSURE:</b>	Not determined
<b>VAPOR DENSITY (Air = 1):</b>	Not determined
<b>% VOLATILITY (V/V):</b>	Not determined
<b>BOILING POINT:</b>	Not determined
<b>MELTING POINT:</b>	Not determined
<b>SOLUBILITY:</b>	Completely miscible in water
<b>pH:</b>	Not determined
<b>VISCOSITY @ 20°C:</b>	Not determined

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>	Do not mix with liquid fertilizers containing phosphates
<b>INCOMPATIBILITY:</b>	Not available
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Burning may result in formation of carbon monoxide fumes.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE ORAL LD<sub>50</sub>:</b>	May cause stomach cramps and/or nausea
<b>EYE IRRITATION:</b>	May cause temporary eye irritation
<b>INHALATION LC<sub>50</sub>:</b>	May cause mild irritation of nasal mucous membranes.
<b>CARCINOGENETIC POTENTIAL:</b>	This product is not carcinogenic teratogenic or mutagenic as determined by OSHA, NTP, or IARC.
<b>ACUTE DERMAL LD<sub>50</sub>:</b>	Slight irritation
<b>SKIN IRRITATION/SENSITIZATION:</b>	Moderate (Prolonged Exposure) May cause redness.

## 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 food or feed by storage or disposal. Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment wash waters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Waste resulting from spills of this material is 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

1 Health  
0 Flammability  
0 Reactivity

#### HMIS

1 Health  
0 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:**

Manganese compounds (3.20%), Zinc compounds (2.10%)

**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:** Added GHS statements  
**PREPARED BY:** Tandy O. Dunn, Director of Health, Safety & Environmental Affairs

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*NutriSol* **MICRO 581**