

Safety Data Sheet

NutriSol Micro 581

SDS Number: 11318
 SDS Prepared: 03/21/1999
 SDS Version: 3.0
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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
 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 slight green/brown colored liquid, with a burned caramel odor. Primary route of entry is dermal.

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

EYES: 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.

SKIN: Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.

INGESTION: 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.

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

FLASH POINT (°F/Test Method): Does not flash

FLAMMABLE LIMITS (LFL & UFL): Not applicable

EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical, and Water.

HAZARDOUS COMBUSTION None known

PRODUCTS:**SPECIAL FIRE FIGHTING****PROCEDURES:****UNUSUAL FIRE AND EXPLOSION****HAZARDS:**

Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.

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.

STORAGE: 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

THRESHOLD LIMIT VALUE:

NOL

PERMISSIBLE EXPOSURE LIMIT:

NOL

SIGNS AND SYMPTOMS OF EXPOSURE:

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.

MEDICAL CONDITIONS**GENERALLY AGGRAVATED BY EXPOSURE:**

Preexisting eye and skin disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.

PRIMARY ROUTES OF ENTRY:

Dermal

ENGINEERING CONTROLS:

Use adequate exhaust ventilation to prevent inhalation of product vapors.

RESPIRATORY PROTECTION:

None required with adequate ventilation. Use NIOSH-approved respiratory protection equipment if misty conditions exist.

EYE PROTECTION:

Avoid contact with eyes. Wear full face shield or chemical splash goggles when handling. Do not wear contact lenses.

SKIN PROTECTION:

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

APPEARANCE AND COLOR:

Slight green/brown colored liquid, burned caramel odor.

SPECIFIC GRAVITY: (Water=1):

Not determined

VAPOR PRESSURE:

Not determined

VAPOR DENSITY (Air = 1):

Not determined

% VOLATILITY (V/V):

Not determined

BOILING POINT:

Not determined

MELTING POINT:

Not determined

SOLUBILITY:

Completely miscible in water

pH:

Not determined

VISCOSITY @ 20°C:

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

STABILITY:	Stable
CONDITIONS TO AVOID:	Do not mix with liquid fertilizers containing phosphates
INCOMPATIBILITY:	Not available
HAZARDOUS DECOMPOSITION PRODUCTS:	Burning may result in formation of carbon monoxide fumes.
HAZARDOUS POLYMERIZATION:	Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀:	May cause stomach cramps and/or nausea
EYE IRRITATION:	May cause temporary eye irritation
INHALATION LC₅₀:	May cause mild irritation of nasal mucous membranes.
CARCINOGENETIC POTENTIAL:	This product is not carcinogenic teratogenic or mutagenic as determined by OSHA, NTP, or IARC.
ACUTE DERMAL LD₅₀:	Slight irritation
SKIN IRRITATION/SENSITIZATION:	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: <u>Y</u> Delayed: <u>N</u> Sudden Release of Pressure: <u>N</u> None	Fire: <u>N</u> Reactive: <u>N</u>
Reportable Quantity (RQ) under U.S. CERCLA:	Manganese compounds (3.20%), Zinc compounds (2.10%)	
SARA, Title III, Section 313:	None	
SARA, Title III, Section 302:	10,000 lbs	
EHS	Not listed	
TPQ	Not listed	
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 & Environmental Affairs

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