

Safety Data Sheet

NutriSol 10% Calcium

SDS Number: 11316
SDS Prepared: 03/09/2006
SDS Version: 4.4
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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NutriSol 10% Calcium

CHEMICAL FAMILY: Inorganic Salt

COMMON NAME: Calcium Nitrate

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

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US Classification

Acute Toxicity - Oral 5	H303
Skin Irritant 3	H315
Eye Irritant 2B	H320
STOT SE 3	H335

LABEL ELEMENTS

GHS-US Labeling

Hazard Pictogram (GHS-US)



GHS07

SIGNAL WORD (GHS-US)

WARNING

HAZARD STATEMENTS (GHS-US)

H303 - May be harmful if swallowed.
H315 - Causes skin irritation.
H320 - Causes eye irritation.
H335 - May cause respiratory irritation.

PRECAUTIONARY STATEMENTS (GHS-US)

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

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P233 - Keep container tightly closed.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL/TLV</u>
Calcium	10%	Proprietary	NOL/NOL
Nitrate Nitrogen	7.1%	Proprietary	NOL/NOL
Urea Nitrogen	0.9%	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. 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 a qualified operator is available. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	>220°F (104.4°C)
FLAMMABLE LIMITS (LFL & UFL):	Not determined
EXTINGUISHING MEDIA:	Product will not burn. If involved in a fire, use water.
HAZARDOUS COMBUSTION PRODUCTS:	None known
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained positive-pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Clear the fire area of unprotected personnel. Cool fire-exposed containers with water. Attack from upwind.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known

6. ACCIDENTAL RELEASE MEASURES

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.
STORAGE:	Keep container closed when not in use. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERMISSIBLE EXPOSURE LIMIT: NOL

SIGNS AND SYMPTOMS OF EXPOSURE:

Irritation of the skin and eyes. Contact with the eyes is painful and irritating. Overexposure: Prolonged skin and eye contact may cause moderate irritation.

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

RESPIRATORY PROTECTION:**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

COLOR AND PHYSICAL STATE:

Clear/light yellow to amber liquid

ODOR:

Slight sweet odor

SPECIFIC GRAVITY (Water=1):

1.40 - 1.43

VAPOR PRESSURE:

No data available

VAPOR DENSITY (Air = 1):

No data available

% VOLATILITY (V/V):

35.0%

BOILING POINT:

>220°F (104.4°C)

MELTING POINT:

No data available

SOLUBILITY:

Totally soluble in water or nitrogen solutions

pH:

4.5 - 5.5

VISCOSITY 77°F (25°C) :

≈ 1.2 cps

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:

Extreme temperatures (above 250°C).

INCOMPATIBILITY:

Water reactive materials, oxidizers, alkalis, hypochlorites, aldehydes, inorganic acids, copper, sulfur, phosphorus.

HAZARDOUS DECOMPOSITION PRODUCTS:

Nitrogen and carbon oxides, ammonia, and cyanuric acid.

HAZARDOUS**POLYMERIZATION:**

Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀:

3900 mg/kg (calcium nitrate tetrahydrate)

ACUTE DERMAL LD₅₀:

No data available.

ACUTE INHALATION LC₅₀:

May irritate the nasal passages and upper respiratory tract.

EYE IRRITATION:

Moderate

CARCINOGENIC POTENTIAL:

This product is not carcinogenic, teratogenic, or mutagenic as determined by OSHA, NTP, or IARC. Danger of methemoglobin formation.

SKIN IRRITATION/SENSITIZATION:

Moderate

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 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

IN ACCORDANCE WITH DOT, IMDG, IATA: Not regulated for transport by USDOT as a hazardous material.
FREIGHT CLASSIFICATION: Liquid Fertilizer NOIBN
NMFC No. 68100 Class 50

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

<u>NFPA</u>		<u>HMIS</u>	
1 Health	0 Reactivity	1 Health	0 Reactivity
0 Flammability		0 Flammability	C PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate: Y Fire: N Sudden Release of Pressure: N
Delayed: N Reactive: N
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: Updated Technical Information
PREPARED BY: Emma Simpson, Product Development Specialist - Chemist

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NutriSol
10% Calcium