

Safety Data Sheet

Advance LCO

SDS Number: 10025
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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Advance LCO
CHEMICAL NAME:	Polyhydroxy carboxylic and aliphatic carboxylic acids with lipo-chitooligosaccharide
CHEMICAL FAMILY:	Aqueous Organic Salt Solution
COMMON NAME:	Carboxylic Acid Liquid Fertilizer with LCO Additive
EPA REGULATION NUMBER:	Not applicable
<u>Manufactured by:</u> Coastal AgroBusiness Inc. PO Box 856 Greenville, NC 27835 Phone: 1-800-635-1388	<u>Emergency Telephone Numbers</u> 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- Harmful if swallowed, inhaled, or absorbed through skin. Material is destructive to tissue of the mucous membranes and the upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Do not take internally.

This product is a pale clear yellowish liquid with a slight, mild, mostly odorless smell. Primary route of entry is skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (units)</u>
Proprietary blend of natural mono- and di-carboxylic acids, poly-hydroxy carboxylic acid and 2-hydroxy-1,2,3-propanetricarboxylic acid, along with lipo-chitooligosaccharide	45%	Mixture	10MG/M#
Inert ingredients	55%	N/A	N/A

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:	Give large amounts of water and induce vomiting. Get immediate medical attention. 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):	Non-Combustible
FLAMMABLE LIMITS (LFL & UFL):	Not applicable
EXTINGUISHING MEDIA:	Non-combustible product; use extinguishing media for underlying cause of fire
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 fire area of unprotected personnel. Cool fire exposed containers with water. Attack from upwind.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Product generates toxic and irritating fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

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

Large releases: 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:	Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated contact with skin.
STORAGE:	Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures less than 105°F/40.5°C but greater than 0°F/-17.8°C.

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 severe 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:	Pale clear yellowish liquid
SPECIFIC GRAVITY: (Water=1):	1.05 g/cc

VAPOR PRESSURE:	Not established
PERCENT VOLATILE (by volume):	Not applicable
BULK DENSITY:	1.2 g/cc
BOILING POINT:	212°F (100°C)
EVAPORATION RATE:	Not established
SOLUBILITY:	Not applicable
pH:	4 - 6

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:	None currently known
INCOMPATIBILITY:	Product may react to strong oxidizing agents containers for this product.
HAZARDOUS DECOMPOSITION PRODUCTS:	May produce toxic fumes of carbon monoxide, carbon dioxide
HAZARDOUS POLYMERIZATION:	Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀:	Vomiting and Abdominal Cramps
EYE IRRITATION:	Severe
INHALATION LC₅₀:	May irritate nose, throat, and lungs
CARCINOGENETIC POTENTIAL:	None listed in OSHA, NTP, IARC or ACGIH
ACUTE DERMAL LD₅₀:	Slight irritation
SKIN IRRITATION/SENSITIZATION:	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: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State, and Local environmental 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:	<u>NFPA</u>	<u>HMIS</u>
	2 Health 0 Flammability 0 Reactivity	2 Health 0 Flammability 0 Reactivity 0 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>	

Reportable Quantity (RQ) under U.S. CERCLA:	Not listed
SARA, Title III, Section 313:	Not listed
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:	New & to meet new regulatory requirements
PREPARED BY:	Tandy O. Dunn, Director of Health, Safety & Environmental Affairs

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