

Safety Data Sheet

Quantum SDS 21-0-0

SDS Number: 29170
 SDS Prepared: 10/29/2013
 SDS Version: 1.0
 Version Date: 10/29/2013

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Quantum SDS 021-0-0
CHEMICAL NAME: Nitrogen, Zinc, Manganese, Iron mixture
EPA REGISTRATION NUMBER: Not applicable

Formulated 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- Contact with eyes by product mist or solution may cause irritation or a burning sensation. Prolonged or repeated skin contact with product mist or solution may cause skin irritation. Skin absorption is unlikely to occur. Ingestion of product solution may cause irritation of the gastrointestinal tract to include nausea, vomiting and diarrhea. Inhalation of product mist may cause irritation of the nose, throat, and respiratory tract. Excessive heating may cause ammonia gas to evolve.

This product is a clear, light blue liquid with slight amine odor. Primary routes of entry are Inhalation, eye contact and skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (units)</u>
Nitrogen	21%	Proprietary	Not established
Zinc	1%	Proprietary	Not established
Manganese	0.8%	Proprietary	Not established
Iron	0.4%	Proprietary	Not established

Note: This material is not hazardous under Labor Department regulations.

4. FIRST AID MEASURES

EYES: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of eye and lids. Obtain immediate medical attention.

SKIN: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.

INGESTION: If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain immediate medical attention.

INHALATION: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth-to-mouth resuscitation. If heart has stopped beating, CPR should be performed. Obtain immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	Not applicable
FLAMMABLE LIMITS (LFL & UFL):	Not applicable
EXTINGUISHING MEDIA	Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS:	Heating to dryness may cause the release of ammonia and carbon dioxide. This ammonia, NH ₃ , may form flammable mixtures (16-25%) with air.
SPECIAL FIRE FIGHTING PROCEDURES:	Keep containers/storage vessels in the fire area cooled with water spray. Intense heating may cause the release of ammonia vapors. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Intense heating may cause the release of ammonia vapors.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Small releases: Confine and absorb small release on sand, earth, or other inert absorbent. Use water spray to dilute to weak fertilizer solution and transfer to suitable containers for possible land application according to label use or for disposal. Large releases: Confine area to qualified personnel. Shut off release if safe to do so. Dike the spill area to prevent runoff into sewers, drains or surface waterways (potential aquatic toxicity). Recover as much material as possible. Treat remaining material as a small release. Check local, state and federal regulations for proper 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:	No ACGIH TVL
PERMISSIBLE EXPOSURE LIMIT:	No OSHA PEL
SIGNS AND SYMPTOMS OF EXPOSURE:	Ingestion of product may cause irritation of the gastrointestinal tract to include nausea, vomiting, and diarrhea. Material considered having low toxicity to humans. Prolonged or repeated contact with product may cause skin irritation. Contact with eyes may cause irritation.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	None known
PRIMARY ROUTES OF ENTRY:	May be harmful if vapor/mist is inhaled at high concentration. No specific data available for ingestion. Moderate eye irritant. Mild skin irritant.
ENGINEERING CONTROLS: RESPIRATORY PROTECTION:	Use adequate exhaust ventilation to prevent inhalation of vapors. None normally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.
EYE PROTECTION:	Chemical goggles and a full face shield. DO NOT WEAR CONTACT LENSES.
SKIN PROTECTION:	Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND COLOR:	Clear, light blue liquid with slight odor
SPECIFIC GRAVITY: (Water=1):	Not established
VAPOR PRESSURE:	Not established
PERCENT VOLATILE (by volume):	Not applicable
BULK DENSITY:	10.5 lb/gal @ 25C
BOILING POINT:	212°F (100°C);
EVAPORATION RATE:	Not established
SOLUBILITY:	Soluble
pH:	10.1

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:	Avoid storage in unagitated bulk tanks above the recommended storage temperature of 77°F (25°C). Avoid incompatible materials and intense heat.
INCOMPATIBILITY:	Strong oxidizers agents and strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Ammonia fumes may be released upon heating. When heated to decomposition the products emits acrid smoke and irritating fumes.
HAZARDOUS POLYMERIZATION:	Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀:	Not established
EYE IRRITATION:	May cause irritation
INHALATION LC₅₀:	Not established
CARCINOGENETIC POTENTIAL:	None listed in OSHA, NTP, IARC or ACGIH
ACUTE DERMAL LD₅₀:	Not established
SKIN IRRITATION/SENSITIZATION:	May cause irritation

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.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Description:	NOT REGULATED BY DOT BY HIGHWAY.
U.S. Surface Freight Classification:	FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6; CLASS 70)

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	HMIS
	1 Health	1 Health
	0 Flammability	0 Flammability
	0 Reactivity	0 Reactivity
		H PPE

**SARA Hazard Notification/Reporting
SARA Title III Hazard Category:**Immediate: Y Fire: N
Delayed: N Reactive: N
Sudden Release of Pressure: N**Reportable Quantity (RQ) under U.S.
CERCLA:**

Not listed

SARA, Title III, Section 313:

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

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Coastal AgroBusiness, Inc. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

