

Safety Data Sheet

Quantum SDS 5-0-20-13S

SDS Number: 29100
SDS Prepared: 05/01/2012
SDS Version: 2.1
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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Quantum SDS 5-0-20-13S
CHEMICAL NAME: Potassium Thiosulfate, Urea blend, and Triazone
CHEMICAL FAMILY: Aqueous Organic Salt Solution
EPA REGISTRATION NUMBER: Not applicable

Formulated 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- Contact with eyes by product mist or solution may cause irritation or a burning sensation. This blended liquid fertilizer product is derived from Urea, Urea-Triazone Solution, and Potassium Thiosulfate. 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.

GHS Label elements, including precautionary statements/

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>TLV (units)</u>
Total Nitrogen (N)	5.00	Mixture	Not established
Soluble Potash (K ₂ O)	20.00	Mixture	Not established
Combined Sulfur (S)	13.00	Mixture	Not established
Fertilizer salts and inert ingredients	62.00	Mixture	Not established

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, external heart massage should be applied. 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 AGGRAVATED BY EXPOSURE:** None known
- PRIMARY ROUTES OF ENTRY:** May be harmful if vapor/mist is inhaled at high concentration. Moderate eye irritant. Mild skin irritant.
- ENGINEERING CONTROLS:** Use adequate exhaust ventilation to prevent inhalation of product vapors.
- RESPIRATORY PROTECTION:** 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):** 1.4 g/ml
- VAPOR PRESSURE:** Not established
- PERCENT VOLATILE (by volume):** Not applicable
- BULK DENSITY:** 11.68 lbs./gal.
- BOILING POINT:** Not established
- EVAPORATION RATE:** Not established
- SOLUBILITY:** Complete
- pH:** 9 - 12

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 excessive heat
- INCOMPATIBILITY:** Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness. Avoid contact with acids or acid materials. This product may not be compatible with copper, zinc or their alloys (bronze, brass, galvanized materials). These materials of construction should not be used in piping, handling systems or storage containers for this product.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Heating to dryness may cause the release of ammonia and carbon dioxide. This ammonia, NH₃, may form flammable mixtures (16-25%)

HAZARDOUS POLYMERIZATION: with air.
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:

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

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