

## Safety Data Sheet

# Quantum SDS 15-0-12-8S

SDS Number: 29200  
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### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Quantum SDS 15-0-12-18S  
**CHEMICAL NAME:** KTS, urea, urea 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**  
 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. 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (units)</u>
Potassium Thiosulfate	*	10294-66-3	Not established
Urea	*	57-13-6	Not established

\*Quantum 15-0-12-8S is a proprietary blend of Urea, Triazone, Urea, and Potassium Thiosulfate solution.

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, external heart massage should be applied. Obtain immediate medical attention.

## 5. FIRE FIGHTING MEASURES

<b>FLASH POINT (°F/Test Method):</b>	Not applicable
<b>FLAMMABLE LIMITS (LFL &amp; UFL):</b>	Not applicable
<b>EXTINGUISHING MEDIA:</b>	Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Heating to dryness may cause the release of ammonia and carbon dioxide. This ammonia, NH <sub>3</sub> , may form flammable mixtures (16-25%) with air.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	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

<b>HANDLING:</b>	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.
<b>STORAGE:</b>	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

<b>THRESHOLD LIMIT VALUE:</b>	No ACGIH TVL
<b>PERMISSIBLE EXPOSURE LIMIT:</b>	No OSHA PEL
<b>SIGNS AND SYMPTOMS OF EXPOSURE:</b>	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.
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:</b>	None known
<b>PRIMARY ROUTES OF ENTRY:</b>	May be harmful if vapor/mist is inhaled at high concentration. No specific data available for ingestion. Moderate eye irritant. Mild skin irritant.
<b>ENGINEERING CONTROLS:</b>	Use adequate exhaust ventilation to prevent inhalation of VAPORS.
<b>RESPIRATORY PROTECTION:</b>	None normally required. If conditions exist where mist may be

<b>EYE PROTECTION:</b>	generated, a NIOSH/MSHA approved mist respirator should be worn. Chemical goggles and a full face shield. DO NOT WEAR CONTACT LENSES.
<b>SKIN PROTECTION:</b>	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

<b>APPEARANCE AND COLOR:</b>	Clear, light blue liquid with slight odor
<b>SPECIFIC GRAVITY: (Water=1):</b>	1.34 g/ml
<b>VAPOR PRESSURE:</b>	Not established
<b>PERCENT VOLATILE (by volume):</b>	Not applicable
<b>BULK DENSITY:</b>	Not established
<b>BOILING POINT:</b>	Not established
<b>EVAPORATION RATE:</b>	Not established
<b>SOLUBILITY:</b>	Complete
<b>pH:</b>	9 - 10

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

<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Avoid excessive heat
<b>INCOMPATIBILITY:</b>	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.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Heating to dryness may cause the release of ammonia and carbon dioxide. This ammonia, NH <sub>3</sub> , may form flammable mixtures (16-25%) with air.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE ORAL LD<sub>50</sub>:</b>	Not established
<b>EYE IRRITATION:</b>	May cause irritation
<b>INHALATION LC<sub>50</sub>:</b>	Not established
<b>CARCINOGENETIC POTENTIAL:</b>	None listed in OSHA, NTP, IARC or ACGIH
<b>ACUTE DERMAL LD<sub>50</sub>:</b>	Not established
<b>SKIN IRRITATION/SENSITIZATION:</b>	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

1 Health  
 0 Flammability  
 0 Reactivity

#### HMIS

1 Health  
 0 Flammability  
 0 Reactivity  
 H PPE

### SARA Hazard Notification/Reporting SARA Title III Hazard Category:

Immediate: Y

Delayed: N

Sudden Release of Pressure: N

Not listed

Fire: N

Reactive: 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:**

To meet new regulatory requirements

**PREPARED BY:**

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