

Safety Data Sheet

Quantum SDS 18-0-8-5S

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Quantum SDS 18-08-8-5S
CHEMICAL NAME: KTS, urea, urea triazone
CHEMICAL FAMILY: Aqueous Organic Salt Solution
EPA REGISTRATION NUMBER: Not applicable

Formulated by:
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 Chemtec (24 hours)
 1800-424-9300
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 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 18-0-8-5S 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

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:	Use adequate exhaust ventilation to prevent inhalation of product vapors.
RESPIRATORY PROTECTION:	None normally required. If conditions exist where mist may be

EYE PROTECTION:	generated, a NIOSH/MSHA approved mist respirator should be worn. 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):	1.34 g/ml
VAPOR PRESSURE:	Not established
PERCENT VOLATILE (by volume):	Not applicable
BULK DENSITY:	Not established
BOILING POINT:	Not established
EVAPORATION RATE:	Not established
SOLUBILITY:	Complete
pH:	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

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, NH ₃ , may form flammable mixtures (16-25%) with air.
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

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

Fire: 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

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