



Safety Data Sheet Rev. 3/2017

SECTION 1: Identification

Selected Fertilizers including: 20-0-4-2 and 20-0-4-3.25

Product Use: Agricultural Fertilizer

Restrictions: None Known

Chemical Description: Mixture

Manufactured By: Twin State Inc.
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Davenport, IA 52807
(563) 359-3624

Emergency Contact: CHEMTREC (800) 424-9300 CHEMTREC International (703) 527-3887

SECTION 2: Hazards Identification

Physical Hazard: Not Classified

Health Hazard: Eye Irritation

OSHA Defined Hazard: Not Classified

Signal Word: Warning

Hazard Statement: Causes eye irritation

Pictograms:



Precautionary Statement(s):

Prevention: Wash thoroughly after handling. Wear eye protection.

Response: Wash Hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

SECTION 3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
UAN	15978-77-5	49 - 60
Ammonium Thiosulphate	7783-18-8	7.7 - 12.5
Potassium Chloride	7447-40-7	6.0 - 6.5
UREA	57-13-6	0 - 5.5
Ammonia	7664-41-7	0 - .80

*All concentrations are in percent by weight. Safety Data Sheet is not a guarantee of product specification or N-P-K-S values.

SECTION 4: First Aid Measures

Eye Contact: Flush immediately with water. If wearing contacts remove. Flush with water for 15 minute. Seek medical attention if irritation persists.

Skin Contact: Wash with soap and water. Remove contaminated clothing and wash before reuse. See physician if skin becomes irritated.

Inhalation: Move to fresh air. Call physician if symptoms develop. If not breathing, give artificial respiration and seek medical attention. Under normal conditions product is not considered an inhalation hazard.

Ingestion: If small amount is ingested, rinse mouth with water. If large amount is ingested, seek medical attention. Do NOT induce vomiting unless directed to by medical personnel. Do NOT give anything by mouth to an unconscious person.

General Information: Make sure medical personnel are aware of material(s) involved and precaution to protect themselves. Show this Safety Data Sheet to doctor in attendance.

Most Important Symptoms: Symptoms include itching, burning, redness, and effects are acute and delayed tearing of eyes.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing appropriate for surrounding materials.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising From the Chemical: Slight fire hazard. When water evaporates from this product residues may contain ammonium nitrate, and solid ammonium nitrate may become unstable and explosive.

Protective Equipment and/or Precautions for Firefighters: Use full protective suit and self-contained breathing apparatus. Move containers away from fire area if possible without risk.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid contact with skin and eyes. Avoid inhalation of vapors. Ensure adequate ventilation. Wear personal protection equipment. *See section 8 of Safety Data Sheet regarding PPE.

Methods and Materials for Containment and Cleanup:

Small Spills: Wipe up with absorbent material (cloth). Clean thoroughly with wet cloth and water to remove contamination.

Large Spills: Stop flow of material if possible, without risk. Dike spilled material to contain spill. Recover spilled material and put in separate container. If on hard surface, such as cement, rinse with water to clean surface of contaminates. Collect rinse water in container. Use the same process on soft surface, such as rock or soil. When all material is picked up take top layer of rock or dirt, approximately 4 to 6 inches. This material may be land applied according to label.

Environmental Precautions: Do not contaminate water or allow contaminates to enter drains, sewers, or water courses.

SECTION 7: Handling and Storage

Precaution for Safe Handling: Avoid inhalation of vapor and/or spray. Also avoid contact with skin and eyes. Ensure adequate ventilation. Wear Suitable protective clothing.

*For personal protections see section 8 of the Safety Data Sheet.

Conditions for Safe Storage: Store indoors in a cool, dry, and well ventilated place. Be sure to keep container tightly close. Do not store at temperatures under 40 degrees Fahrenheit.

Outside Storage and Transfer Equipment: Avoid using containers, pipes, and fittings made of brass, copper, or aluminum because of pitting. Keep out of reach of children.

SECTION 8: Exposure Controls/Personal Protection

Component Exposure Limits: No exposure limits are established for chemical compounds that make up this product.

Biological Limit Values: No biological limits noted for the ingredients.

Exposure Guidelines: Follow standard monitoring guidelines.

Engineering Controls: Provide eye wash station.

Personal Protective Equipment (PPE):

Eyes: Wear approved safety glasses or goggles.

Skin: Wear long sleeve shirt, rubber gloves, pants, and boots to prevent skin contact.

Respiratory: Not normally required. If vapors or dust exceed acceptable level wear a MSHA/NIOSH approved mask.

OSHA Permissible Exposure Limits (PEL): Not established.

American Conference of Government Industrial Hygienists Threshold Limit Values (ACGIH TLV): Not established.

SECTION 9: Physical and Chemical Properties

Appearance	Colorless
Odor	Slight ammonia odor
Odor Threshold	NA
pH	6.8 – 8.5
Melting/Freezing Point	Not Available

Boiling Point/Range	Not established
Flash Point	Not established
Evaporation Rate	Not established
Flammability	Not established
Upper/Lower Flammability Limits	Not established
Vapor Pressure	Not established
Vapor Density	Not established
Specific Gravity	1.25 – 1.26
Solubility	100%
Partition Coefficient	Not established
Auto-ignition Temperature	Not established
Decomposition Temperature	Not established
Viscosity	Not established

SECTION 10: Stability and Reactivity

Reactivity: This product is stable and not reactive under normal conditions, during storage, and transport.

Chemical Stability: This product is stable under normal conditions.

Conditions to Avoid: Extremely high and low temperatures.

Incompatible Materials: Strong acids, and strong bases. Product will cause deterioration of copper, zinc, bronze, brass, galvanized, and aluminum. These materials should not be used for handling or storage.

Hazardous Decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous Polymerizations: No data available.

SECTION 11: Toxicological Information

Eye: Slight irritation, also may cause redness or burning.

Skin: Slight irritation, also may cause redness from prolonged exposure.

Ingestion: Mild irritant also may cause nausea, vomiting, and diarrhea.

Inhalation: Mild irritant.

Carcinogenicity: This product is not considered to be a carcinogen by National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), and OSHA.

SECTION 12: Ecological Information

Ecological Information: This product is not classified as environmentally hazardous.

Persistence & Degradability: Not established.

Bioaccumulative Potential: Not established.

Mobility in Soil: This product is water soluble and may disperse in soil.

Ecotoxicity: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that a large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal Considerations

Waste/Disposal Methods: Rinse tank, plumbing, and container with water to be applied according to land application rates. Do not allow water to drain into sewers and/or water supplies. Dispose of container in accordance with local, state, and federal regulations.

*See section 8 Exposure Controls/Personal Protection.

SECTION 14: Transport Information

US DOT Information: Not regulated by the U.S. Department of Transportation.

SECTION 15: Regulatory Information

U.S. Federal Regulations: Not regulated.

State Regulations: Not Regulated

Code	Health	Flammable	Instability/Reactive
NFPA	1	0	0

SECTION 16: Other Information

Revision Date: Version 2, Revised March 2017

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. Therefore, it should not be construed as a guarantee of any specific property of the product.

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