



Safety Data Sheet

Product and Manufacturer Information

Name: Granular Blended Fertilizer w/ XCU and Armament™, Phosphate Free

Synonyms: 22-0-4 50% XCU w/ Armament, 30-0-4 30 XCU w/ Armament, 30-0-6 50 XCU w/Armament, etc.

Recommended Use: Turfgrass Fertilizer

Manufacturer: Morral Companies, LLC; P.O. Box 26, Morral OH 43337. Phone: 740-465-3251

For Transportation Emergencies call Chemtrec at 800-424-9300

For Other Emergencies call 911 and/or Appropriate Regulatory Agencies

Hazard Identification

GHS Classification: none

This material does not present any unusual hazards under ordinary conditions. Use general precautions when handling, transporting, and storing this material.

Composition / Information on Ingredients

<u>Component</u>	<u>CAS #</u>	<u>% by weight</u>	
Urea	57-13-6	5-65	
Potassium Chloride	7447-40-7	5-90	
Sulfur	7704-34-9	0.1-1.5	
Zinc EDTA	15954-98-0	<0.5	
Sodium Borate	1303-96-4	<0.5	
Proprietary Highly Branched Organic Acids	n/a	0.5	<2

The material is a mixture of these ingredients with an inert filler and/or binder, within the ranges specified, as determined by product grade. The Sulfur is present as a coating on some or all of the Urea. The remaining ingredients are present in a coating on all granules.

First Aid Measures

Skin Contact: The material may be especially irritating to cuts, abrasions, and open wounds. If exposure occurs, rinse the affected area thoroughly with water. Treat other irritated areas by washing with soap and water.

Eye Contact: Minor irritation is likely if exposure occurs. Rinse eyes thoroughly with water for 15 minutes. Remove contacts if necessary. Seek medical attention if irritation persists.

Respiration: Inhalation of any dust may result in breathing difficulty. Remove to fresh air and seek medical attention

Ingestion: Swallowing large amounts may result in vomiting, diarrhea, cramps, and other gastrointestinal disturbances. Dilute stomach contents with water. Seek medical attention.

Fire Fighting Measures

Flash point: does not apply. The Sulfur coating, however, has a low ignition point.

Extinguishing Materials: use as appropriate to fight surrounding fires.

Special Hazards and Precautions: Ammonia, Oxides of Nitrogen, and Chlorine gases may be evolved at elevated temperatures. The Sulfur coating will burn to Sulfur Dioxide. Molten sulfur may evolve hydrogen sulfide (H₂S), a flammable gas.



Safety Data Sheet

Accidental Release Measures

Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal. For major releases, response by trained personnel using preplanned procedures is recommended. Refer to Exposure Controls / Personal protection to determine proper PPE. Consult applicable regulatory agencies for spill reporting and disposal.

Handling and Storage

Standard conditions are generally acceptable. Keep from humidity to avoid product caking/clumping.

Exposure Controls / Personal Protection

Skin exposure should be kept minimal by wearing gloves, long pants, and long sleeved shirts. If handling conditions cause powder to disperse, wear goggles and a dust mask for eye and respiratory protection.

Physical and Chemical Properties

Appearance: white, brown, black, and light green granules. May contain some dust or fine particles.

Odor: none

Solubility in water: The plant nutrient components are highly soluble, with the exception of iron oxide. The iron content is soluble only under acidic conditions.

Stability and Reactivity

This material is stable under normal use and storage conditions. This product is not a reactivity or polymerization hazard. Dust-Air mixtures may ignite and explode.

Toxicological Information

This material is not known to be a toxicity hazard to animals or humans.

Ecological Information

Ecotoxicity for this product is low. It contains plant nutrients. It incorporates into biological processes.

Disposal Considerations

This material is not defined as a hazardous waste by the U.S.E.P.A. Dispose of this material as recommended by federal, state, and local regulations.

Transport Information

This material is not regulated as a hazardous material by the U.S.D.O.T. Use normal transportation safety precautions.



Safety Data Sheet

Regulatory Information

SARA Title III Hazard Class: not considered a hazard
CERCLA Reportable Quantity: not applicable.
TSCA: not regulated
RCRA Hazardous Waste Classification: not regulated

Additional Information

Revision 1, prepared 5 April 2016

This information is accurate to the best of our knowledge, and is furnished without warranty of any kind. Users should determine the suitability of this material for its intended purpose. The user assumes all risks associated with the use of this product.