

Product and Manufacturer Information

Name: 6-12-12 with Humates and Micronutrients

Synonyms: 6-12-12-.1Fe-0.05Mn-.05Zn. Liquid Fertilizer

Recommended Use: Fertilizer

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

Component	CAS #	% by weight
Urea	57-13-6	4
Urea-Formaldehyde Polymer	9011-05-6	3
Potassium Hydroxide	1310-58-3	14
Phosphoric Acid	7664-38-2	14
Manganese EDTA	15375-84-5	< 1
Zinc EDTA	1594-98-0	< 1
Iron EDTA	15708-41-5	< 1
Humic Acids	1415-93-6	1
Water		remainder

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: Remove to fresh air and seek medical attention. Inhalation of any liquid or mist may result in breathing difficulty.

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

Extinguishing Materials: All standard agents are acceptable.

Special Hazards and Precautions: Ammonia, Oxides of Nitrogen, and other gases may be evolved at elevated temperatures.

Accidental Release Measures

Do not allow to enter drains waterways, etc. Contain large spills by diking with soil or other material. Small spills may be covered with an absorbent material. Do not dilute with water or use water to flush material to another location. For uncontrolled or 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. Long term storage may result in settling of solids, formation of crystals, and/or insoluble polymers. Avoid storage or transfer using copper bearing, zinc-clad, or aluminum vessels or equipment.

Exposure Controls / Personal Protection

Skin exposure should be kept minimal by wearing gloves, long pants, and long sleeved shirts. If splashing may occur, wear protective goggles. Ingestion and respiration of the material are unusual occurrences under typical conditions of use.

Physical and Chemical Properties

Appearance: clear to slightly hazy dark brown liquid

Odor: none to slight ammonia

pH: > 8

Freezing Point: ~32F

Boiling Point: ~212F

Solubility in Water: complete

Density: 10.5 lbs/gal

Stability and Reactivity

This product is stable under normal use and storage conditions. There may be some settling of solids if the material is stored for long periods. This product is not a reactivity or polymerization hazard. It will form insoluble polymers if stored for long periods or at lowered pH.

Toxicological Information

This material is not known to be a toxicity hazard to animals or humans. Chronic exposure to formaldehyde, that may be present in this material, has been linked to cancer, but at exposure levels far greater than those attainable through this product.

Ecological Information

Ecotoxicity for this product is low. It contains plant nutrients. It incorporates into biological processes. A portion of the Nitrogen has been shown to break down in the soil to available forms over several months.

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.

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

Disclaimer

Revision 1, prepared 17 August 2015

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.