

Spectrum Group  
Division of United Industries Corp.  
P.O. Box 142642  
St. Louis, MO 63114-0642

# Material Safety Data Sheet

Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200

## Hazardous Material Identification System-(HMIS)

HEALTH - 1

REACTIVITY - 0

FLAMMABILITY - 0

PERSONAL - Rubber gloves

**I Trade Name:** Vigoro Water Soluble All Purpose Plant Food 24-8-16

**Product Type:** Fertilizer

**Item Number:** 52301

**EPA Registration Number**

**Manufacturer**

**Emergency Telephone No.**

N/A

Chemsico  
Div. of United Industries Corp.  
8494 Chapin Industrial Drive  
St. Louis, MO 63114

**For Chemical Emergency:** 1-800-633-2873  
**For Information:** 1-800-561-1333  
**Prepared by:** Charlie Duckworth  
**Date Prepared:** December 5, 2005

## II Hazardous Ingredients/Identity Information

## III Physical and Chemical Characteristics

Chemical	%	OSHA PEL	ACGIH TLV
Inert			
24-8-16 Fertilizer	100	NA	NA

(Derived from: Ureaform, Urea, Ammonium sulfate, Ammonium phosphate, Potassium phosphate, Potassium nitrate, Muriate of potash, Copper sulfate, Iron EDTA, Ammonium molybdate, Zinc sulfate. Information regarding the contents and levels of metals in this product is available on the Internet at [www.regulatory-info-sb.com](http://www.regulatory-info-sb.com))

**Appearance:** Granular  
**Boiling Point:** NA  
**Melting Point:** NA  
**Vapor Pressure:** NA  
**Specific Gravity:** (H<sub>2</sub>O=1) NA  
**Solubility in Water:** NA  
**Evaporation Rate:** NA

## IV Fire and Explosion Hazard Data

## V Reactivity Data

**Flash Point:** N/A - Will not burn  
**Flame Extension:** N/A  
**Flammable Limits:** N/A  
**Autoignition Temp.:** N/A  
**Fire Extinguishing Media:** Use proper media to extinguish surrounding fire  
**Decomposition Temp.:** N/A  
**Special Fire-Fighting Procedures:** Use self-contained air supply. Ammonium is toxic to aquatic organisms. Keep runoff from reaching any body of water  
**Unusual Fire and Explosion Hazards:** Noxious fumes may form ammonia and oxides of nitrogen and carbon.

**Stability:** Stable  
**Polymerization:** Will not occur  
**Conditions to Avoid:** Fire conditions  
**Incompatible Materials:** Corrosive to metals.  
**Hazardous Decomposition or Byproducts:** Urea will generate ammonia in a fire. Oxides of nitrogen, carbon and phosphorous are also possible.

## VI Health Hazard Data

## VII Precautions for Safe Handling and Use

**Summary of Risks:** Possible nausea, vomiting, diarrhea - possible skin or eye irritation

**FIRST AID PROCEDURES**  
**Ingestion (Swallowing):** Get medical attention..  
**Inhalation:** Remove to fresh air. Treat symptomatically.  
**Skin Contact:** Wash thoroughly.  
**Eye Contact:** Flush with water for 15 minutes holding eyelids open. Get medical attention.  
**Special Notes:** None  
**Health Conditions Aggravated by Exposure:** Excessive inhalation of dust may cause irritation and coughing. Inhalation of dust may also aggravate asthma in susceptible individuals. Prolonged skin contact may cause mild skin irritation.  
**Ingredients listed by NTP, OSHA or IARC as Carcinogens or potential carcinogens:** None

**Steps to be Taken in Case Material is Released or Spilled:** Sweep up spills. Use good housekeeping practices. Avoid contact with skin, eyes, or clothing. Wash after handling.

**Waste Disposal:** Remove to approved landfill.

**Handling & Storage Precautions:** Keep out of reach of children. Avoid bag breakage.

## VIII Control Measures

## IX Transportation Data

Read and follow label directions. They are your best guide to using this product effectively, and give necessary safety precautions to protect your health.

**DOT:** Not Regulated by DOT (limited quantity exception)  
**IMDG:** Not Regulated by IMDG (limited quantity exception)  
**IATA:** Not Regulated by IATA (limited quantity exception)

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