



MATERIAL SAFETY DATA SHEET N-Capsulate

Fulvic Acid

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Issue Date: 01/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

FluidGro N-Capsulate

Common Name: Fulvic Acid
Chemical Description: Mild organic acid.
TSCA/CAS No.: None assigned

Manufactured By:

Centennial Ag Supply Co.
P. O. Box 557
Kersey, CO 80644
(800) 678-2567

Emergency Phone Numbers

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, call INFOTRAC (24-Hour Emergency Number): (800) 535-5053
EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
none				

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear to medium amber liquid with no odor. Not immediate health hazard. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Flush immediately with running water for at least 15 minutes. Seek medical attention if irritation persists.

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

Ingestion: If conscious and alert administer water to dilute, then induce vomiting. Call a Poison Control Center or physician immediately. Do not give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If not breathing, give artificial respiration and get medical attention.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Nonflammable.
Test Method:	Not applicable.
LEL Flammable Limits:	Not applicable.
UEL Flammable Limits:	Not applicable.
Autoignition Temperature:	Not available.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None known.
Extinguishing Media:	Foam, dry chemical or water spray.
Special Firefighting Procedures:	Stay upwind of smoke. Wear positive pressure, breathing apparatus. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies, lakes, streams or other bodies of water.
Clean Up:	Collect recoverable liquid for application consistent with the label. Any remaining liquid may be directly packaged for disposal, or collected with absorbent material and packaged for disposal.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 32°F. Do not store near food or feeds. Do not stack pallets more than two (2) high. Fulvic acid may expand when frozen.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Harmful if swallowed or inhaled. Avoid eye contact and prolonged or repeated contact with skin. Avoid breathing dusts, spray mist, or vapors. May cause irritation. Work in well ventilated area. Wash thoroughly with soap and water after handling.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

- Eyes:** Chemical dust/splash goggles, full coverage safety glasses, or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
- Skin:** Wear impervious gloves (PVC, nitrile) and footwear. If skin contact occurs, wash thoroughly with soap and water. Remove contaminated clothing and wash before re-use.
- Respiratory:** Not normally needed. If use generates an aerosol mist or respiratory irritation, use a dust/mist filtering respirator (such as MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.
- Ventilation:** Use with adequate ventilation. No TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA
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Appearance:	Near-clear to medium amber liquid.
Odor:	None.
pH:	3.0 - 3.3
Vapor Pressure:	Not determined.
Vapor Density (Air=1):	Not determined.
Boiling Point:	Not determined.
Freezing Point:	Not determined.
Water Solubility:	Complete.
Density:	8.6 pounds/gallon.
Evaporation Rate:	Not applicable.
Viscosity:	Not applicable.
% Volatile:	Not applicable.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Freezing or excessive heat. When mixing liquids with other chemicals, all chemical labels should be read in their entirety to ensure both chemical compatibility, and base on pH.
Incompatibility:	Avoid uncontrolled contact with strong bases. Steel containers and plumbing may be subject to considerable corrosion and should be avoided.
Hazardous Decomposition Products:	May generate irritating fumes
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

Acute Effects:

Eyes:	Slight irritant. May cause redness or burning.
Skin:	Slight irritant, especially from prolonged exposure. May cause redness.
Ingestion:	Mild irritant. May cause nausea, vomiting and diarrhea.
Inhalation:	No known inhalation irritation.

Subchronic Effects: Not known.

Chronic Effects: Not known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.

Toxicity to Fish and Invertebrates: Not known.

Toxicity to Plants: Not known.

Toxicity in Birds: Not known.

SECTION 13. DISPOSAL

Thoroughly rinse containers before disposal. Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.: Not D.O.T. Regulated.

Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid.
NMFC Item 68140 Sub 6, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None

SARA TITLE III, Section 313 Toxic Chemicals: None.

SECTION 16. OTHER

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable; however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.

Revised 1/8/2013: Formatting changes, Corporate name