

Safety Data Sheet (SDS)

SECTION 1: IDENTIFICATION

Address:

10/15

The J.C. Smith CO.
471 Hwy 16 South
San Saba, TX 76877

Emergency Phone: INFOTRAC (800) 535-5053

Trade Name: FOLIAR FEED II Nutrient Spray
15.00% Available Nitrogen
10.00% Available Phosphoric Acid/ 13.9% H₃PO₄
5.00% Soluble Potash
.27% Soluble Metal Trace Elements

Chemical Name: Derived from Urea, Phosphoric Acid Solution and Muriate of Potash. Other ingredients are proprietary and/or are non-hazardous

SECTION 2: HAZARDS IDENTIFICATION

Health

Inhalation: Mist, if formed, will irritate mucus membrane and respiratory tract. May cause lacrimation, coughing, sneezing, salivation, and labored breathing. Severe exposures may cause chemical pneumonitis.

Ingestion: Corrosion of mouth, gullet and digestive tract. Nausea, vomiting, possible circulatory shock and loss of consciousness.

Skin: Prolonged contact of acid material with skin can cause severe burns. Mist (if formed) can irritate.

Eyes: Liquid contact will cause severe burns, which may result in blindness. Mist (if formed) can irritate.

Permissible

Concentration: Air: OSHA 1Mg/M3 Pel
ACGIH 1 Mg/M3 TWA 3Mg/M3 STEL

Unusual

Chronic Toxicity: Non Established

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Urea (Dry)
Phosphoric Acid Ortho
Potassium Chloride

C.A.S. No. 87-13-6
C.A.S. No. 7664-38-2
C.A.S. No. 7747-40-7

SECTION 4: FIRST AID MEASURES

- Eyes:** Immediately flush with water for a minimum of 15 minutes. If symptoms persist, get prompt medical attention.
- Skin:** Immediately flush with water for a minimum of 15 minutes. Remove contaminated clothing. If symptoms persist, get prompt medical attention. Use no chemical antidotes.
- Inhalation:** Remove to fresh air. Perform artificial respiration if necessary. Get prompt medical attention.
- Ingestion:** If conscious, immediately give large quantities of water. DO NOT induce vomiting. Follow with milk of Magnesia (1oz.). Never induce vomiting or give diluents to someone who is unconscious, having convulsion, or who cannot swallow.

SECTION 5: FIRE-FIGHTING MEASURES

Fire and Protection

Unusual fire and explosion hazards:
Contact with common metal produces hydrogen, which may form flammable or explosive mixtures.

Fire Extinguishing Agents Recommended:

Use water spray. Product will not burn or contribute to intensity of a fire. Firefighting should be aimed at surrounding materials. Avoid spraying into containers. If only a small amount of combustibles is present, smother fire with dry chemicals. All standard agents are acceptable.

Fire Extinguishing Agents to Avoid:

All standard agents are acceptable.

Special Fire Fighting Precaution:

Use water spray to keep containers cool and to slush any spillage away from metals and dire. Wear self-contained breathing apparatus with full face protection.

When heated to decomposition, this product may emit containing oxides and/or chlorine vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Hands, Arms, and Body:

Wear Acid-Resistance apron, protective clothing, rubber boots, and gloves for routine produce use. DO NOT USE CLOTHING AND EQUIPMENT MADE OF NYLON.

Other clothing and equipment:

Provide eyewash and quick-drench shower facilities. Neutralization equipment and supplies should be kept readily available.

SECTION 7: HANDLING AND STORAGE

Precautions/Procedures:

Work practices and hygiene practices. Avoid getting chemical on you or in you. Wash hands after handling chemicals. Do not eat or drink while handling chemicals.

Normal Handling:

Do not get in eyes, on skin, or on clothing, avoid breathing mist (if formed). Use with adequate ventilation.

Storage:

Protect from physical damage. Store away from heat and out of direct sunlight. Keep containers upright. DO NOT stack plastic 5 gal. Pails more than 4 containers high in summer. Remove 3rd row of buckets from pallet to permit stacking. If bottom pails show sign of collapse, remove from pallet and set to side. Pails should reform to original configuration.

Spill or leakage:

If possible, dike spill and mop up or pump into plastic poly drums or tanks. Label “corrosive” and store as above. Residual may be neutralized with soda ash.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:

Not required under normal conditions of use. Use NIOHS/OSHA approved breathing respirator during misting or release response.

Eyes and Face:

Wear Chemical goggles. Optionally, add face shield and/or hat. DO NOT WEAR CONTACT LENSES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: Liquid
- Appearance: Light green color
- Odor: Slight acid odor
- pH: Acidic 2.0 or less
- Evaporation Rate: Not Applicable
- Melting Point: Not Applicable
- Boiling Point: Not Applicable
- Specific Gravity: (H₂O=1) Typ. @68°F.
- Vapor Density: (Air=1) Not Applicable
- Solubility in Water: 100%
- Vapor Pressure: Not Applicable

- Flash Point: Not Applicable
- Auto Ignition: Not Applicable
- Flammable Limits in air (% by volume): Lower: Not Applicable
Upper: Not Applicable
- Percentage Volatile by volume (20C.): Not Applicable

SECTION 10: STABILITY AND REACTIVITY

- Stability:** STABLE. Conditions to avoid. Extreme heat may cause product to decompose, producing toxic oxide fumes.
- Hazardous Polymerization:** Will NOT occur
- Conditions to avoid:** Not Applicable
- Incompatibility:** (Materials to avoid)
Metal powders, alkalis, water-reactive materials, carbonates, cyanides, sulfides, and caustics.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data: Urea is used in ruminant animal feeds as a protein source. It is also a product of animal/human metabolism and is excreted as a waste product.

Urea:	LD50 oral rat,	14,300 mg/kg
Phosphoric Acid:	LD50 oral rat,	1,530 mg H ₃ PO ₄ /kg
Potassium Chloride:	LD50 oral rat,	2,430 mg/kg

Suspected Cancer Agents:

This product ingredients are not found of the following list;

Federal OSHA Z List:	No	
NTP:	No	
Cal/OSHA:	No	
ACGIH (TLV List)	Yes	Phosphoric Acid

Medical Conditions aggravated by exposure:

Inhalation exposure will aggravate pre-existing respiratory ailments. Skin contact may aggravate pre-existing dermatitis.

Dermal Exposure: Reddening and irritation

Ingestion Exposure: Nausea and Stomach Pains

Inhalation Exposure: Irritation of the nose and throat. Coughing

Recommendation

to physician: Treat Symptoms.

SECTION 12: ECOLOGICAL INFORMATION

Degradability/aquatic toxicity: Inorganic Material

Dangerous to aquatic life in high concentrations. May promote eutrophication in waterways. Its movement in the soil depends upon the exact compound, the pH, the soil type, and the salinity. All work practices should be aimed at elimination any environmental contamination.

Effect of material on plants or animals:

Use as directed for plant nutrient benefit. High ingestion rates of urea and/or phosphoric acid are toxic per listing.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste liquid should be cautiously diluted with water and neutralized with an alkali (lime-soda ash). Neutralized waste much be disposed of in accordance with applicable disposal regulations. EPA WASTE NUMBER: D002, for wastes consisting of this product, IF pH is below 2.0.

General	NFPA Ranking	
Health:	3	(Blue Color)
Flammability:	0	(Red Color)
Reactivity:	0	(Yellow Color)
Other:	CORROSIVE	(White Color)

SECTION 14: TRANSPORT INFORMATION

DOC CLASSIFICATION:	Corrosive Liquid, Acidic, Inorganic, N.O.S
SHIPPING NAME:	Liquid Fertilizer Compound
HAZARD CLASS NUMBER:	8 (Corrosive)
UN IDENTIFICATION NUMBER:	UN 3264
PACKING GROUP:	III
DOT LABEL REQUIRED:	CORROSIVE
EMERGENCY RESPONSE GUIDE:	154
RQ:	5,000 lbs. Phosphoric Acid 100% H ₃ PO ₄

SECTION 15: REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Phosphoric Acid is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorizations Act of 1986, 40 CFR 372.

Section I	Title III	SARA
40 CFR 355	Extremely Hazardous Substances	None
40 CFR 370	Hazardous Chemical Reporting	Applicable
40 CFR 372	Toxic Chemicals	Applicable, Immediate Health

MARINE POLLUTANT: This product contains no component listed under 49 CFR 172.101, appendix B

CERCLA REPORTABLE QUANTITIES (RQ): 5,000 lbs. Phosphoric Acid 100%

Section I	Urea Solid/ Components/ Impurities	
40 CFR Part 355	Title III	SARA
40 CFR Part 370	Extremely hazardous substance	None
	Hazardous Chemical reporting	Applicable

SARA EPA HAZARDOUS CATEGORIES
SECTION 311

Immediate Health	Yes	
40 CFR Part 372	Toxic Chemicals	None

SECTION 16: OTHER INFORMATION

NOTICE:

The information contained herein is believed to be accurate and represents the best information currently available to us. Judgements as to the suitability of information herein for purchaser's purposes are purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, we make no warranty of merchantability or other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use or misuse. Users should make their own investigations to determine the suitability of the information for their own particular purpose. Seller's liability is limited to the products purchase price.