

Material Safety Data Sheet

J. R. Simplot Company

AgriBusiness

Trade Name: Nutra-Wet
Registration No: 7001-50519-AA

M77003

SECTION 1

CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufactured For: J.R. Simplot Company
PO Box 70013
Boise, ID 873707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: Nutra Wet
Common Name: 4-14-7
Chemical Type: Foliar Nutrient and Adjuvant

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
			Hazardous		
Phosphoric Acid	7664-38-2	H ₃ PO ₄	15%	1 mg/M ³	1530
Sorbitol	50-70-4	C ₆ H ₁₄ O ₆	10.8%	Not available	Not available
			Non-Hazardous		
Non-hazardous ingredients:			74.2%	Not available	Not available
Water	7732-18-5	H ₂ O			
Di-Potassium Phosphate	7758-11-4	K ₂ H ₃ PO ₄			
Urea	57-13-6	H ₄ N ₂ CO			
Dodecyl Benzene Sodium Sulfonate	25155-30-0	C ₁₈ H ₂₉ O ₃ S.Na			
Inerts					
Zinc Sulfate	7733-02-0	ZnSO ₄		5 mg/M ³ - Fumes	None listed

SECTION 3

HAZARDS IDENTIFICATION

Ingestion: Aggravation and burning of the mucous membranes of the gastrointestinal tract.
Inhalation: Inhalation of mist may cause discomfort to the respiratory tract.
Eye Contact: Contact of the liquid with the eyes will produce discomfort and may cause severe burns.
Skin Absorption: Avoid contact with skin, open cuts or sores.
Skin Contact: Phosphoric acid, in concentrated solutions, may cause skin burns. It may not cause any immediate burning sensation on skin contact. In some individuals no such burning ever occurs unless it is left in contact for a prolonged period of time without rinsing or washing off.
Effects of Overdose: Ingestion can result in severe aggravation of the mucous membranes of the gastrointestinal tract. Nausea and vomiting, abdominal pains, bloody diarrhea, acidosis, shock. Aggravation of the respiratory tract. Conjunctivitis and burns to eyes and skin.

SECTION 4

FIRST AID MEASURES

Ingestion: IMMEDIATELY dilute with 2-3 glasses of milk or water. DO NOT INDUCE VOMITING. Administer 20 mls. of milk of magnesia. If vomiting occurs spontaneously, administer fluid repeatedly. Give demulcents, such as milk or beaten eggs. Seek immediate medical attention.
Inhalation: Remove person to fresh air and, if necessary, give artificial resuscitation. CALL A PHYSICIAN.
Eyes: IMMEDIATELY flush eyes with fresh running water for 15-20 minutes. CALL A PHYSICIAN.
Skin: Remove contaminated clothing while drenching with water, preferably under shower. After removal of clothing continue rinsing skin for 15 minutes. CALL A PHYSICIAN.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media: Non-flammable. Use water spray and agent suitable to extinguish source of fire.
Special Fire Fighting Procedures: Wear full protective rubber clothing, hood, gloves, and boots to protect against acid splashes and mists. Full face shield and, when phosphoric acid mists from hot fires may be encountered, self-contained breathing apparatus should be worn.
Unusual Fire and Explosion Hazards: Phosphoric Acid is non-flammable; however, it can react with metals to produce hydrogen, a flammable gas.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Low toxicity to aquatic life. Do not contaminate any watercourse or any body of water by direct application, cleaning of equipment or disposal.
Steps to be taken in case material is released or spilled: Use full protective chemical clothing; attempt to dike around spill with earth or sand as a containment measure. Dilute with water if necessary. Small spills can be safely neutralized with limestone or soda ash. Caustic soda should be avoided because of excessive reactivity with phosphoric acid.

SECTION 7

HANDLING AND STORAGE

Precautions to be taken in handling and storing: Do not allow this product to freeze. Do not store below 30°F. Avoid storage in metal tanks and containers unless properly lined or constructed with approved stainless steel. Store drums and carboys in a well ventilated, dry area. Have adequate first aid water available. Wash hands before eating.

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SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Approved respirators for protection against mists and fumes, when needed.
Protective Clothing: When contact is likely, wear chemical clothing, chemical gloves, chemical boots, and chemical hat or hood.
Eye Protection: Safety glasses with side shield; full face shield and/or chemical goggles.
Other: Eyewash fountain and safety shower in area.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Approximately 100°C	Solubility in Water:	Complete
Density:	11.2 lbs./gal.	% Volatiles (by volume):	Approximately 50%
Flashpoint:	Non-combustible	Vapor Pressure, mm Hg:	Not applicable
pH:	1.96	Reaction with Water:	None
Appearance:	Green-blue liquid.		
Extinguishing Media:	Use media appropriate to extinguish source of fire.		

SECTION 10

STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Avoid contact with strong alkalis or with metals except certain stainless steels.
Incompatibility (Material to Avoid): Reacts vigorously with alkalis, producing heat; with many metals, producing heat and flammable hydrogen gas.
Hazardous Decomposition Products: Heating to decomposition yield fumes of toxic phosphorous pentoxide, hydrogen gas.
Hazardous Polymerization: May occur.
Conditions to Avoid: High temperature.

SECTION 11

TOXICOLOGY INFORMATION

Ingestion: Toxicity Data: Oral--rat LD₅₀: 1530 mg/kg.
Inhalation: Toxicity Data: Ihl--human TCLo: 100 mg/M³--TFX: IRR.
Skin Absorption: Toxicity Data: Skin--rabbit LD₅₀: 2740 mg/kg.

SECTION 12

ECOLOGICAL INFORMATION

None listed.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Flush to retention area, neutralize with limestone or soda ash and dilute with water. Consult with local, state and federal regulations before disposal.

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Corrosive Liquids, N.O.S. (Phosphoric Acid), 8, UN1760, P.G. III	C.A.S. Number:	None
Hazard Class:	8	D.O.T. Number:	1760
Reportable Quantity (RQ):	5000 lbs. Phosphoric Acid	Haz Waste No:	None
Labels Required:	Corrosive	EPA Regist No:	7001-50519-AA
Placard:	Corrosive		

SECTION 15

REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X)

This product contains phosphoric acid and zinc, which are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16

OTHER INFORMATION

Flash Point (Test Method):	Non-flammable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

Hazard Rating (N.F.P.A.): Fire: Health: 2 Fire: 0 Reactivity: 0 Specific: Not applicable

This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association (N.F.P.A.).

MSDS Version Number: 6 (revision to Section 1)

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Reviewed by: Environmental, Health, & Safety Department
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