

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M77519

Trade Name: PHT Smart Start Gold™
Registration No: None

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 27
Boise, ID 83707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: PHT Smart Start Gold™
Common Name: 8-26-3
Chemical Type: Foliar Nutrient

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
No hazardous ingredients					
Phosphoric Acid	7664-38-2	H ₃ PO ₄		1 mg/m ³ (3 mg/m ³ STEL)	1 mg/m ³
Ammonia	7664-41-7	NH ₃		25 ppm (35 ppm STEL)	50 ppm
			Non-hazardous		
Ammonium Polyphosphate	68333-79-9	(NH ₄) ₂ HPO ₄		Not applicable	Not applicable
Tetra-potassium Pyrophosphate	7320-34-5	H ₄ O ₇ P ₂ .4K		Not available	Not available
Potassium Hydroxide	1310-58-3	KOH		2 mg/m ³ C	Not available
Iron EDTA	--	--		1 mg/m ³ (Iron salts as Fe)	Not available
Zinc EDTA	--	--		Not available	Not available
Sodium Borate	12007-42-0	--		Not available	Not available
EB97™	--	--		Not available	Not available
Water	7732-18-5	H ₂ O		Not applicable	Not applicable

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: Not generally considered hazardous.
Inhalation: Not normal route of entry.
Eye Contact: Low eye discomfort potential.
Skin Absorption: Dermal exposure is low in toxicity.
Skin Contact: Low aggravation potential.
Effects of Overdose: Direct contact with the liquid on open cuts in the skin or contact with the eyes will result in local aggravation.

SECTION 4 FIRST AID MEASURES

Ingestion: If a large amount is ingested, give 2-3 glasses of water and induce vomiting. Call a physician.
Inhalation: Generally not considered an inhalation hazard.
Eyes: Flush eyes immediately and thoroughly with running water for 15 minutes. If condition persists, get medical attention.
Skin: Wash skin with mild soap and water. Seek medical attention if aggravation develops.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use media suitable to extinguish source of fire. Foam, CO₂, dry chemical, water or fog.
Special Fire Fighting Procedures: Use fire fighting procedures according to type of fire.
Unusual Fire and Explosion Hazards: None

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Aquatic toxicity data indicates that Liquid Ammonium Phosphate is of low toxicity to the species tested. Since this product is a fertilizer, it may promote algae growth in waterways. Use and disposal, employing proper environmental control practices, should not cause significant environmental impact.
Steps to be taken in case material is released or spilled:
Contain spills and maximize recovery. Small spills can be absorbed in sand, kitty litter or other absorbent. For large spills, dike area and reclaim liquid. Absorb unreclaimed liquid and wash area with water. Keep out of sewers, drinking water and all bodies of water, including waterways.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing:
Avoid using containers, pipes and fittings made of zinc-clad or copper bearing alloys. Avoid contact with skin and eyes. Avoid contact with strong alkalis. Store above 32°F. Do not contaminate water, food and feed by storage or disposal. Keep out of reach of children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Good ventilation practice should be exercised.
Respiratory Protection: None required.
Protective Clothing: Clean work clothing with long sleeves and long pants and rubber coated gloves. Minimize skin exposure.
Eye Protection: Safety glasses or chemical splash-proof goggles.
Other: Eyewash fountain and safety shower in area.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not available	Solubility in Water:	Complete
Specific Gravity:	1.35 - 1.39	% Volatiles (by volume):	Not applicable
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Not applicable
pH:	6 to 7.5	Reaction with Water:	None
Appearance:	Green liquid.		
Extinguishing Media:	Non-flammable. Use media suitable to extinguish source of fire.		

SECTION 10

STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: None listed
Incompatibility (Material to Avoid): Zinc-clad and copper bearing alloys. Avoid strong alkalis.
Hazardous Decomposition Products: Ammonia, PO_x and NO_x.
Hazardous Polymerization: Will not occur

SECTION 11

TOXICOLOGY INFORMATION

	Oral LD50 (rat)	Dermal LD50 (rat)	Aquatic Fish 96	Aquatic (other)
Ammonium Polyphosphate	5000 mg/kg	None listed	None listed	None listed
EB 97™	>5000 mg/kg	>5000 mg/kg (rabbit)	None listed	None listed

Inhalation: Rats: One hour exposure to 19.6 mg/L was non-lethal for Ammonium Polyphosphate.

SECTION 12

ECOLOGICAL INFORMATION

None listed.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Contain spills and maximize recovery. Disposal of spilled material should be in accordance with applicable federal, state and local environmental regulatory requirements. Do not reuse any part of the packaging. Dispose of all containers in accordance with applicable federal, state and local environmental regulatory requirements

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Not regulated by D.O.T.	C.A.S. Number:	See "Ingredients"
Hazard Class:	None	D.O.T. Number:	None
Reportable Quantity (RQ):	None	Haz Waste No:	None
Labels Required:	None	EPA Regist No:	None
Placard:	None		

SECTION 15

REGULATORY INFORMATION

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

The ingredients listed below are subject to the following reporting requirements:

	EPCRA Sec. 302	EPCRA Sec. 304	CERCLA Sec. 309	TRI Sec. 313
Ammonia	500	100	100	Y
Phosphoric Acid	N/A	N/A	5,000	N/A

SECTION 16

OTHER INFORMATION

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

Hazard Rating (N.F.P.A.): Health: 1 Fire: 2 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: 7 (revisions to Sections 1)

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