

**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**

<b>Manufacturer or Formulator:</b> J.R. Simplot Company P.O. Box 27 Boise, ID 83707	<b>Product Name:</b> PHT Smart Start Gold™ <b>Common Name:</b> 8-26-3 <b>Chemical Type:</b> Foliar Nutrient
<b>Emergency Phone - Chemtrec:</b> 1-800-424-9300	

**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 <sub>3</sub> PO <sub>4</sub>		1 mg/m <sup>3</sup> (3 mg/m <sup>3</sup> STEL)	1 mg/m <sup>3</sup>
Ammonia	7664-41-7	NH <sub>3</sub>		25 ppm (35 ppm STEL)	50 ppm
<b>Non-hazardous</b>					
Ammonium Polyphosphate	68333-79-9	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>		Not applicable	Not applicable
Tetra-potassium Pyrophosphate	7320-34-5	H <sub>4</sub> O <sub>7</sub> P <sub>2</sub> .4K		Not available	Not available
Potassium Hydroxide	1310-58-3	KOH		2 mg/m <sup>3</sup> C	Not available
Iron EDTA	--	--		1 mg/m <sup>3</sup> (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 <sub>2</sub> 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, CO<sub>2</sub>, 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**

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

**SECTION 10**

**STABILITY AND REACTIVITY**

<b>Stability (Normal Conditions):</b>	Stable
<b>Conditions to Avoid:</b>	None listed
<b>Incompatibility (Material to Avoid):</b>	Zinc-clad and copper bearing alloys. Avoid strong alkalis.
<b>Hazardous Decomposition Products:</b>	Ammonia, PO <sub>x</sub> and NO <sub>x</sub> .
<b>Hazardous Polymerization:</b>	Will not occur

**SECTION 11**

**TOXICOLOGY INFORMATION**

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

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

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

**SECTION 16**

**OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	Not applicable	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	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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