

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

**M77333**

Trade Name: PHT Persist® Ultra  
Registration No: None

**SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

<b>Manufactured For:</b>	Plant Health Technologies P.O. Box 70013 Boise, ID 83707	<b>Product Name:</b>	PHT Persist® Ultra
		<b>Common Name:</b>	Emulsifiable Methyl Ether
		<b>Chemical Type:</b>	Blend of Methyl Esters and Emulsifiers
<b>Emergency Phone - Chemtrec:</b>	1-800-424-9300		

**SECTION 2 COMPOSITION INFORMATION**

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
Methyl Esters	not listed	not listed	80	not listed	not listed
Nonionic Surfactants	not listed	not listed	8	not listed	not listed
Glycol Ethers	not listed	not listed	8	not listed	not listed
N-Butanol	not listed	not listed	4	50 ppm (152 mg/m <sup>3</sup> )	100 ppm (300 mg/m <sup>3</sup> )
Ethylene Oxide	75-21-8	not listed	trace	1 ppm (1.8mg/m <sup>3</sup> )	1 ppm/5 ppm
Acetaldehyde	75-07-0	not listed	trace	none listed	100 ppm (180 mg/m <sup>3</sup> )
1,4-Dioxane	123-91-1	not listed	trace	not listed	not listed

**SECTION 3 HAZARDS IDENTIFICATION**

**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May cause discomfort to the nose, throat and respiratory system. May cause blurred vision, headache, dizziness and drowsiness.  
**Eye Contact:** Contact with eyes may cause aggravation or burning.  
**Skin Contact:** Contact with skin may cause aggravation or burning.  
**Effects of Overdose:** None listed.

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. DO NOT give sodium bicarbonate, fruit juices or vinegar. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by a physician or poison control center. Call physician or poison control center immediately.  
**Inhalation:** Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration. Take care that rescuer does not become contaminated.  
**Eyes:** Immediately flush eyes with plenty of cool water for at least 15 minutes. Do not let victim rub eyes. Get medical attention immediately.  
**Skin:** Immediately flush skin with plenty of water while removing contaminated clothing. Get medical attention immediately. Wash contaminated clothing before reuse.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Dry chemical, water spray, water fog, CO<sub>2</sub>, foam and sand/earth.  
**Special Fire Fighting Procedures:** Individuals should perform only those fire fighting procedures for which they have been trained. Use water spray, dry chemical, foam or carbon dioxide. Use water to keep fire-exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from the fire and to dilute spills to non-flammable mixtures.  
**Unusual Fire and Explosion Hazards:** Fire fighters should wear self-contained breathing apparatus in the positive-pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:**  
Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented. Wear appropriate respiratory protection and protective clothing as described in Section 8. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations. All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Avoid land filling of liquids. Reclaim where possible.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**  
Protect against physical damage. Detached or outside storage is preferred. Inside storage should be in standard flammable liquids storage room or cabinet. All ignition sources should be eliminated. Smoking should be prohibited in storage areas. Electrical installations should be in accordance with the National Electrical Code. Frequent careful leakage inspection should be done. Automatic sprinkler system should be provided. Isolate from oxidizers, chemicals capable to spontaneous heating, materials reacting with air or moisture to liberate heat, ignition sources and explosives.

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**SECTION 8**

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Adequate ventilation.  
**Respiratory Protection:** Where exposure is likely to exceed acceptable criteria, use approved respiratory equipment.  
**Protective Clothing:** Wear gloves and protective clothing which are impervious to the product for the duration of anticipated exposure if there is potential for prolonged or repeated skin contact.  
**Eye Protection:** Chemical safety goggles should be worn whenever there is the possibility of contact with eyes. Spectacle-type safety glasses do not provide satisfactory protection. An eyewash fountain should be readily available.  
**Other:** None listed.

**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	No data available	<b>Solubility in Water:</b>	Disperable
<b>Specific Gravity:</b>	No data available	<b>% Volatiles (by volume):</b>	2
<b>Flashpoint:</b>	150°F (65°C)	<b>Vapor Pressure, mm Hg:</b>	No data available
<b>pH:</b>	5-7	<b>Reaction with Water:</b>	Not listed
<b>Appearance:</b>	Clear liquid.	<b>Evaporation Rate:</b>	No data available
<b>Extinguishing Media:</b>	Use media suitable for extinguishing source of fire.	<b>Vapor Density:</b>	Greater than 1

**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable under normal conditions.  
**Conditions to Avoid:** Keep away from heat and flames. Avoid contact with oxidizing materials.  
**Incompatibility (Material to Avoid):** Keep away from oxidizing materials.  
**Hazardous Decomposition Products:** Decomposition may produce carbon monoxide and carbon dioxide.  
**Hazardous Polymerization:** Not likely to occur.

**SECTION 11**

**TOXICOLOGY INFORMATION**

None listed.

**SECTION 12**

**ECOLOGICAL INFORMATION**

None listed.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:**

**SECTION 14**

**TRANSPORT INFORMATION**

<b>Shipping name:</b>	Combustible Liquid, N.O.S. (contains butanol), Combustible, NA1993, P.G. III		
<b>Hazard Class:</b>	Combustible	<b>C.A.S. Number:</b>	See "Ingredients"
<b>D.O.T. Number:</b>	NA1993	<b>Labels Required:</b>	Combustible
<b>Haz Waste No:</b>	None	<b>EPA Regist No:</b>	None
<b>Placard:</b>	Combustible (for containers > 119 gal capacity)		
<b>Reportable Quantity (RQ):</b>	ethylene oxide (10#), 1,4-dioxane (100#), acetaldehyde (1,000#), n-butanol (5,000#)		

**SECTION 15**

**REGULATORY INFORMATION**

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

SARA Title III Section 313 – contains n-butanol and glycol ethers.

**SECTION 16**

**OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	Pensky Martin closed cup	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	Not applicable	(% BY VOLUME)	N/D	N/D

**MSDS Version Number: 2**

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