

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

M78003

Trade Name: PHT Ad-Wet 90  
Registration No: 7001-03002 (Washington)

#### SECTION 1

#### CHEMICAL PROPERTIES AND COMPANY INFORMATION

**Manufacturer or Formulator:** J.R. Simplot Company  
P.O. Box 70013  
Boise, ID 83707  
**Emergency Phone - Chemtrec:** 1-800-424-9300

**Product Name:** PHT Ad-Wet 90  
**Common Name:** Ad-Wet 90  
**Chemical Type:** Adjuvant

#### SECTION 2

#### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
Isopropyl Alcohol	67-63-0	CH <sub>3</sub> CHOHCH <sub>3</sub>	<20%	200 ppm (400 ppm STEL)	400 ppm
Ethanol, 2, 2-Oxybis	111-46-6	(2CH <sub>2</sub> OH) <sub>2</sub> O	<20%	Not established	Not established
Ethylene Oxide	75-21-8	(CH <sub>2</sub> ) <sub>2</sub> O	<1ppm	1 ppm	1 ppm (5 ppm STEL)

#### SECTION 3

#### HAZARDS IDENTIFICATION

**Ingestion:** Harmful if swallowed. Can enter lungs and cause damage. May cause dizziness and drowsiness. Aspiration hazards, if swallowed. This product is not to be used in food, cosmetic or potable water applications. Product contains ethylene glycol and/or diethylene glycol, which can be toxic if swallowed.

**Inhalation:** Excessive vapors or mist in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas may cause aggravation to the nose and throat, headache, nausea and drowsiness.

**Eye Contact:** May cause severe aggravation.

**Skin Contact:** Short and long term exposure can aggravate and cause redness and swelling.

**Effects of Overdose:** Overexposure to any chemical may result in enhancement or pre-existing adverse medical conditions and allergic reactions.

#### SECTION 4

#### FIRST AID MEASURES

**Ingestion:** If swallowed, give two large glasses of water and get medical attention immediately. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

**Inhalation:** If overcome by vapors, remove to fresh air. Keep individual calm. If breathing has stopped, give artificial respiration, and immediately seek medical help.

**Eyes:** In case of contact with eyes, immediately flush with water for at least 15 minutes and then get medical attention. Remove contact lenses if present.

**Skin:** Immediately flush with continuous flow of water for at least 15 minutes. Remove contaminated clothing and shoes immediately. Thoroughly wash clothing before reuse.

#### SECTION 5

#### FIRE FIGHTING MEASURES

**Extinguishing Media:** Alcohol foam, CO<sub>2</sub> or dry chemicals. Water may be ineffective.

**Special Fire Fighting Procedures:** Use water spray to cool fire-exposed surfaces and to protect personnel. Respiratory protection required for fire fighting personnel. Stay upwind if possible. Cool exposed tanks with water.

**Unusual Fire and Explosion Hazards:** WARNING: This product is COMBUSTIBLE. Reacts violently with oxidizers. Moderate explosiveness when exposed to heat or flame.

#### SECTION 6

#### ACCIDENTAL RELEASE MEASURES

**Environmental Precautions:** Will produce BOD. Air pollution hazard: low. Will biodegrade at moderately fast-rate to acetone. Major species threatened: terrestrial life.

**Steps to be taken in case material is released or spilled:** Keep public away. Shut off source if possible to do so without hazard. Eliminate sources of ignition. Warn occupants of downwind areas of explosion hazard. Evacuate area. Prevent liquid from entering sewers, water sources of low areas.

#### SECTION 7

#### HANDLING AND STORAGE

**Precautions to be taken in handling and storing:**  
Store away from heat or open flame and oxidizing materials. Do not contaminate water, food or feed by storage or disposal.

#### SECTION 8

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Protection:** Adequate ventilation.

**Respiratory Protection:** Use approved respiratory protection such as air-supplied mask if in enclosed area.

**Protective Clothing:** Clean work clothing, chemical resistant gloves.

**Eye Protection:** Chemical splash goggles.

**Other:** No smoking or open flames. Wash hands thoroughly after handling product and before eating, drinking or using tobacco products.

#### SECTION 9

#### PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	Unknown	<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.06 @ 68°F SCC	<b>% Volatiles (by volume):</b>	Unknown
<b>Flashpoint:</b>	> 120°F	<b>Vapor Pressure, mm Hg:</b>	Unknown
<b>pH:</b>	6.0 - 7.0	<b>Reaction with Water:</b>	Not applicable
<b>Appearance:</b>	Clear amber liquid. Mild alcohol odor.	<b>Density:</b>	8.84 lbs/gallon
<b>Extinguishing Media:</b>	Alcohol foam, CO <sub>2</sub> , dry chemical.		

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**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable  
**Conditions to Avoid:** Heat and open flame, sparks, oxidizing materials.  
**Incompatibility (Material to Avoid):** Alkylene oxides, acid anhydrides, inorganic acids, organic acids, phosphorous trichloride, aldehydes, monomers, polymerizable esters, hydrogen with palladium and storing this product in aluminum vessels.  
**Hazardous Decomposition Products:** No unusual products of combustion.  
**Hazardous Polymerization:** Will not occur

**SECTION 11**

**TOXICOLOGY INFORMATION**

**Ingestion:** Acute Oral (rat): LD<sub>50</sub> 5840 mg/kg. Moderate toxicity via oral and ipr routes. The single LD for a human adult is approximately 250 ml<sup>2</sup>. Oral-HMN TDLO: 15710 mg/kg; CNS> Oral-man LDLO: 8600 mg/kg.  
**Inhalation:** IHL-HMN TCLO: 400 ppm; IRR.  
**Skin Absorption:** Skin--rabbit: LD<sub>50</sub>: 13 gm (13000 mg/kg).

**SECTION 12**

**ECOLOGICAL INFORMATION**

None listed.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Wastes resulting from this product may be disposed of on site or at an approved waste facility.

**SECTION 14**

**TRANSPORT INFORMATION**

<b>Shipping name:</b>	Combustible Liquid, N.O.S.	<b>Packaging Group:</b>	III
<b>Hazard Class:</b>	Combustible liquid	<b>C.A.S. Number:</b>	See "Ingredients"
<b>Reportable Quantity (RQ):</b>	None	<b>D.O.T. Number:</b>	NA 1993
<b>Labels Required:</b>	None	<b>Haz Waste No:</b>	D001
<b>Placard:</b>	Combustible	<b>EPA Regist No:</b>	7001-03002 Washington

**SECTION 15**

**REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)  
*Ethylene Oxide is a known human carcinogen. This product contains <1ppm ethylene oxide.*

**CERCLA Reportable Quantity**

Glycol Ethers (fraction of product matching EPA definition): 0.61-1.99% in product, Reportable Quantity = 1 lb.  
Residual Ethylene Oxide: <0.001% in product, Reportable Quantity = 10 lbs.

**Section 302/304 Extremely Hazardous Substances**

Residual Ethylene Oxide (Range % <0.001) below reportable concentrations.

**Section 311/312 Hazard Categories**

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: *Immediate Health Hazard.*

**Section 313 Reportable Ingredients**

Glycol ethers (CAS Number: *Mixture*) concentration 0.61-1.99%.

WARNING! This product contains a detectable amount of ethylene oxide, which is known to the State of California to cause cancer and/or reproductive toxicity.

Ethoxylated products may contain residual amounts of ethylene oxide (EO) which can accumulate in container headspace and be released in the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The OSHA Permissible Exposure Limit (PEL) for EO is 1 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing EO. It is the responsibility of the employer to comply with the OSHA ethylene oxide standard 29 CFR 1910.1047.

**SECTION 16**

**OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	120°F (49°C) (PMCC)	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	750°F (399°C)	(% BY VOLUME)	N/A	N/A

**Hazard Rating (N.F.P.A.):** Health: 1 Fire: 1 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 (revisions to sections 1, 2, 3, 4, 8, 9, 14, 15, and 16)

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