

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M77425

Trade Name: PHT Load-Up
Registration No: None

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator:	Plant Health Technologies PO Box 70013 Boise, ID 83707	Product Name:	PHT Load-Up
		Common Name:	Load-Up
Emergency Phone - Chemtrec:	1-800-424-9300	Chemical Type:	Water conditioner and spray adjuvant

SECTION 2 HAZARDS IDENTIFICATION

Ingestion: Harmful if swallowed.
Inhalation: Slightly toxic if inhaled. Avoid breathing spray mists.
Eye Contact: Corrosive to eyes and can cause eye damage.
Skin Absorption: Not normally absorbed through skin.
Skin Contact: Can cause irritation to the skin.
Effects of Overdose: None listed.

SECTION 3 COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous Non-Hazardous	TLV	PEL
Sulfuric Acid	7664-93-9	H ₂ SO ₄	4%	0.2 mg/m ³	1 mg/m ³ 8hr TWA
Ammonium Salts	Not listed	N/A	10%	10 mg/m ³ nuisance dust	Not available
Proprietary blend of Polyamines	Not listed	N/A	30%	None listed	Not available
Inert Ingredients	Not listed	N/A	56%	None listed	Not available

SECTION 4 FIRST AID MEASURES

Ingestion: Rinse out mouth and drink 2-3 glasses of water. DO NOT induce vomiting. Seek medical attention.
Inhalation: Remove person to fresh air and provide artificial respiration if unconscious, seek medical attention if condition persists.
Eyes: IMMEDIATELY flush with copious amounts of water for at least 15 minutes. Seek medical attention.
Skin: Remove contaminated clothing. IMMEDIATELY flush with copious amounts of water and thoroughly wash affected area with soap and water.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Flood with water, dry chemical, CO₂ or alcohol foam.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus when fire fighting.
Unusual Fire and Explosion Hazards: Excessive heat, greater than 200°F, may cause product to ignite. Do not allow product to come into contact with undiluted chlorate desiccant as an explosion may result.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers.
Steps to be taken in case material is released or spilled:
Dike or contain spills and absorb with attapulgite, bentonite, or other absorbent clays. Collect all absorbent material and place in a securely closing container and dispose of in accordance with all Local, State and Federal regulations. Thoroughly scrub the floor with detergent and flush with water.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing:
Avoid getting product in the eyes, on the skin or clothing. Wear protective clothing and goggles if splashing is likely to occur. Store the product in its original container at temperatures above 32°F and below 100°F.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate mechanical ventilation.
Respiratory Protection: Under normal use, this product is not likely to present exposure concerns. Use a NIOSH/MSHA approved respiratory when conditions require.
Protective Clothing: Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Wear face shield, goggles and other chemical resistant clothing when splashing is likely.
Eye Protection: Protective eyewear must be worn especially when there is potential for eye contact, wear goggles and ensure flushing equipment is in the immediate vicinity.
Other: None listed

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable	Solubility in Water: 100% Soluble
Density: 8.8 lbs/gal	% Volatiles (by volume): Not listed.
Flashpoint: > 200°F	Vapor Pressure, mm Hg: Not applicable
pH: Not listed.	Reaction with Water: Not listed.

Trade Name: PHT Load-Up
Registration No: None

M77425

Appearance: Clear to pale brown liquid.
Extinguishing Media: Water, dry chemical, CO₂ or alcohol foam

SECTION 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Excessive heat and strong oxidizing agents.
Incompatibility (Material to Avoid): Avoid strong oxidizing agents.
Hazardous Decomposition Products: Thermal decomposition may produce CO_x, CO, SO_x or N₂.
Possibility of Hazardous Reactions: Will not occur.

SECTION 11 TOXICOLOGY INFORMATION

Sulfuric Acid	<u>Oral LD50 (rat)</u> >5,000 mg/kg	<u>Inhalation LC50 (rat)</u> 18 – 420 mg/m ³	<u>Aquatic Fish 96-hour</u> 42 – 500 mg/L	<u>Aquatic (other)</u> 29 – 88 mg/L (daphnia)
---------------	--	--	--	--

All toxicity data from TFI Product Testing Results

SECTION 12 ECOLOGICAL INFORMATION

None listed.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Dispose of waste in accordance with all Local, State, and Federal regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping name:	Not regulated by DOT	C.A.S. Number:	See "Ingredients"
Hazard Class:	None	Sub. Hazard Class:	None
Packaging Class:	None	D.O.T. Number:	None
Marine Pollutant:	No	Labels Required:	None
ERG Number:	None	Placard:	None
Haz Waste No:	None		
EPA Regist No:	None		

SECTION 15 REGULATORY INFORMATION

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

This product contains Sulfuric Acid, CAS #: 7664-93-9 which is subject to the reporting requirements of SARA 302 of the Emergency Planning and Community Right to Know Act.

SECTION 16 OTHER INFORMATION

Flash Point (Test Method):	> 200°F (Test method not listed)	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

MSDS Version Number: 2

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED.** It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.