

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M77008

Trade Name: PHT Folo Spray 12-5-40
Registration No: None

SECTION 1

CHEMICAL PRODUCT 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 Folo Spray 12-5-40
Common Name: 12-5-40
Chemical Type: Salts and Minerals Foliar Nutrient

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous Non-Hazardous	TLV	PEL
Potassium Nitrate	7757-79-1	KNO ₃	77%	N.E.	Not available
A blend of non-hazardous ingredients:			23%	10 mg/m ³ - Nuisance Dust	15 mg/m ³ as total dust
Mono-ammonium Phosphate	7722-76-1	NH ₄ H ₂ PO ₄			
Monopotassium Phosphate	7778-77-0	KH ₂ PO ₄			
Iron EDTA	15708-41-5	C ₁₀ H ₁₂ FeN ₂ NaO ₈			
Manganese EDTA	68015-77-0	Mn K ₂ EDTA			
Zinc EDTA	67859-51-2	Zn(NH ₄) ₂			

SECTION 3

HAZARDS IDENTIFICATION

Ingestion: Ingestion of large quantities may cause violent gastroenteritis.
Inhalation: Avoid inhalation of fine dust.
Eye Contact: May be irritating to eyes.
Skin Absorption: Not toxic.
Skin Contact: May cause irritation. Wash hands before eating or smoking.
Effects of Overdose: Chronic exposure can cause anemia, nephritis, and methemoglobinemia. Ingestion of large quantities may cause violent gastroenteritis. Symptoms: nausea, diarrhea, diuresis, muscular debility, collapse and fatality.

SECTION 4

FIRST AID MEASURES

Ingestion: Treat as a poison. Give 2 glasses of water and induce vomiting and call a physician.
Inhalation: Not listed
Eyes: Flush thoroughly with water for 15 minutes and get medical attention.
Skin: Wash with soap and water.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media: Water, water spray or foam.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus. Use flooding of water in early stages of fire. When large quantities are involved in fire nitrate may melt or fuse, in which condition application of water may result in extensive scattering of molten material.
Unusual Fire and Explosion Hazards: Oxidizing material. In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion, or explosion. Increases the flammability of any combustible substance. May produce zinc fumes when heated to melting.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Do not contaminate water supplies; lakes, ponds, rivers, streams.
Steps to be taken in case material is released or spilled:
Sweep up and scoop into container for use, recycle, or disposal. Store in paper bags. Prohibit smoking or open flame.

SECTION 7

HANDLING AND STORAGE

Precautions to be taken in handling and storing:
Prohibit smoking, welding, open fires, within storage areas. Do not store on wood floors. Avoid contact with organic material. Put into a dry place. Never put together with inflammable powders. Do not store or ship with flammable liquids or solids unless separated by four feet in all directions. Must be palletized to prevent commingling. Keep away from easily combustible substances and acids. Mixed loading with flammable fluids, flammable solids, corrosive substances, toxic matters or organic oxides. This product is regulated by D.O.T. Keep away from explosives. Never ship with poisons.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Dust mask, or if necessary approved mask for nitric oxide fumes.
Protective Clothing: Normal daily clean work clothing.
Eye Protection: Safety glasses with side shields, or goggles.
Other: Eye wash fountain and wash facilities.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable	Solubility in Water:	Complete
Density:	66 to 84 lbs/ft ³	% Volatiles (by volume):	0
Flashpoint:	None	Vapor Pressure, mm Hg:	Not applicable
pH:	Not listed	Reaction with Water:	None
Appearance:	Powder, white or yellow.		
Extinguishing Media:	Flood with water, water spray or foam.		

SECTION 10

STABILITY AND REACTIVITY

Stability (Normal Conditions): Unstable.
Conditions to Avoid: High temperatures. Decomposes very slowly above melting point of 337°C.
Incompatibility (Material to Avoid): Can react violently with Sb, Sb₂, S₃, As, AsS₂, BaS, B, BP, CaS, F₂, charcoal, Cu₃P₂, Ge, GeS, Na acetate, Na hypophosphite, (Na₂O₂ + dextrose), S + As₂S₃, Ti, TiS₂Zn, trichlorethylene, Zr.
Hazardous Decomposition Products: Yield hazardous gaseous oxides of nitrogen when involved in fire.
Hazardous Polymerization: Will not occur
Conditions to Avoid: Not applicable

SECTION 11

TOXICOLOGY INFORMATION

Ingestion: Acute Oral LD₅₀ 1166 to 3015 mg/kg.

SECTION 12

ECOLOGICAL INFORMATION

None listed.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Take to a state approved toxic waste landfill site for disposal.

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Potassium Nitrate, Mixture, 5.1, UN1486, P.G. III	C.A.S. Number:	7757-79-1
Hazard Class:	5.1	D.O.T. Number:	UN1486
Reportable Quantity (RQ):	None	Haz Waste No:	D002
Labels Required:	Oxidizer	EPA Regist No:	None
Placard:	Oxidizer		
Packaging Group:	III		

Refer to 49 CFR 172.101 Hazardous Materials Table for further provisions, packaging authorizations and quantity limitations.

SECTION 15

REGULATORY INFORMATION

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

This product contains the following toxic chemicals that may be subject to the reporting requirements of Section 313 of The Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372): Manganese compounds and Zinc compounds.

SECTION 16

OTHER INFORMATION

Flash Point (Test Method):	Non-flammable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A
Hazard Rating (N.F.P.A.)	Health: 1	Fire: 0	Reactivity: 0	Specific: Oxy

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 (revision to section 2)

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