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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : PHT Folo Spray 20-20-20

Product code : M77052PHT

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

JR Simplot Company Boise, ID 83707 T 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2B H320 Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H320 - Causes eye irritation

H332 - Harmful if inhaled

Precautionary statements (GHS-US) : P261 - Avoid breathing dust

P264 - Wash hands thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel

unwell

P337 + P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
potassium nitrate	(CAS No) 7757-79-1		Eye Irrit. 2B, H320
urea	(CAS No) 57-13-6		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335

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Name	Product identifier	%	Classification (GHS-US)
Monoammonium Phosphate	(CAS No) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
Monopotassium phosphate	(CAS No) 7778-77-0		Not classified
EDTA Manganese Sodium	(CAS No) 15375-84-5		Eye Irrit. 2B, H320
Copper EDTA	(CAS No) 14025-15-1		Not classified
Zinc EDTA	(CAS No) 14025-21-9		Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from

other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Dark blue granules.

Color : Dark blue

Odor : Fertilizer like odor Odor threshold : No data available рΗ No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point No data available Freezing point : No data available : No data available Boiling point Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapor pressure Relative vapor density at 20 °C No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

: No data available

•: 32 g/100ml •: 100 g/100ml •: 38 g/100ml •: 22 g/100ml •: 100 g/100ml

Log Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidizing properties: No data availableExplosive limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Relative density

No additional information available

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10.2. Chemical stability

Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Excessive heat and open flame. Dust generation and damp areas. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Oxidizing agent. Acids. bases. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Sulfur oxides. Ammonia. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

PHT Folo Spray 20-20-20	
LD50 oral rat	2778 mg/kg
ATE US (oral)	2778.00000000 mg/kg body weight
ATE US (gases)	4500.00000000 ppmV/4h
ATE US (vapors)	11.00000000 mg/l/4h
ATE US (dust, mist)	1.50000000 mg/l/4h

potassium nitrate (7757-79-1)	
LD50 oral rat 3750 mg/kg (Rat)	
LD50 dermal rat	> 5000 mg/kg
ATE US (oral)	3750.00000000 mg/kg body weight

urea (57-13-6)	
LD50 oral rat	8471 mg/kg (Rat)
LD50 dermal rat	> 3200 mg/kg (Rat)
LD50 dermal rabbit	> 21000 mg/kg (Rabbit)
ATE US (oral)	8471.00000000 mg/kg body weight

Monoammonium Phosphate (7722-76-1)	
LD50 oral rat	5750 mg/kg (Rat)
LD50 dermal rat	> mg/kg
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE US (oral)	5750.00000000 mg/kg body weight

Monopotassium phosphate (7778-77-0)	
LD50 oral rat	7100 mg/kg (Rat)
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)
ATE US (oral)	7100.0000000 mg/kg body weight

Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified.

Specific target organ toxicity (repeated : Not classified

exposure) Based on available data, the classification criteria are not met

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Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. **Toxicity**

(
potassium nitrate (7757-79-1)	
LC50 fish 1	162 mg/l (96 h; Pisces; Lethal)
LC50 other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1	200 - 1000 mg/l (Plankton; Nocivity test)
LC50 fish 2	1378 mg/l (Poecilia reticulata)
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
TLM fish 1	3000 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	162 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
Threshold limit other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
urea (57-13-6)	
,	
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus)

urea (57-13-6)	
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)
TLM fish 1	17500 ppm (96 h; Poecilia reticulata)
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)
Threshold limit other aquatic organisms 2 > 10000 mg/l (Pseudomonas putida) Threshold limit algae 2 > 10000 mg/l (168 h; Scenedesmus quadricauda)	

Monoammonium Phosphate (7722-76-1)			
LC50 fish 1	155 ppm (96 h; Pimephales promelas)		

Monopotassium phosphate (7778-77-0)	
LC50 fish 1	> 900 mg/l (48 h; Leuciscus idus)
EC50 other aquatic organisms 1	2 ppm (672 h; Potamogeton sp.; O2 evolution)
Threshold limit other aquatic organisms 1 1 ppm (672 h; Potamogeton sp.; O2 evolution)	
Threshold limit algae 1	1 ppm (672 h; Elodea sp.; O2 evolution)
Threshold limit algae 2	> 5 ppm (672 h; Elodea sp.; O2 evolution)

Persistence and degradability 12.2.

PHT Folo Spray 20-20-20	
Persistence and degradability	Not established.
potassium nitrate (7757-79-1)	

potassium nitrate (7757-79-1)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

urea (57-13-6)	
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Not established.
ThOD	0.27 g O ₂ /g substance

Monoammonium Phosphate (7722-76-1)	
Persistence and degradability	Biodegradability in water: no data available. Not established.

Monopotassium phosphate (7778-77-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable

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Monopotassium phosphate (7778-77-0)		
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
EDTA Manganese Sodium (15375-84-5	5)	
Persistence and degradability	Not established.	
Copper EDTA (14025-15-1)		
Persistence and degradability	Not established.	
Zinc EDTA (14025-21-9)		
Persistence and degradability	Non degradable in the soil. Adsorbs into the soil. Not established.	
12.3. Bioaccumulative potential		
PHT Folo Spray 20-20-20		
Bioaccumulative potential	Not established.	
potassium nitrate (7757-79-1)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
urea (57-13-6)		
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)	
BCF other aquatic organisms 1	11700 (Chlorella sp.)	
Log Pow	-2.591.59	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
Monoammonium Phosphate (7722-76-1)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
Monopotassium phosphate (7778-77-0	0)	
Bioaccumulative potential	No bioaccumulation data available.	
EDTA Manganese Sodium (15375-84-5	5)	
Bioaccumulative potential	Not established.	
Copper EDTA (14025-15-1)		
Bioaccumulative potential	Not established.	
Zinc EDTA (14025-21-9)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
12.4. Mobility in soil		
No additional information available		

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

Additional information

Other information : No supplementary information available.

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ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

potassium nitrate (7757-79-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

:

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases: see section 16:

<i>,</i> ,,	At of 11 philaded, dee decition 16.		
	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
	Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B	
	Skin Irrit. 2	Skin corrosion/irritation Category 2	
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	H315	Causes skin irritation	
	H320	Causes eye irritation	
	H332	Harmful if inhaled	
	H335	May cause respiratory irritation	

SDS US (GHS HazCom 2012)

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