**EMERGENCY NUMBER: 1-800-535-5053** 

**Granular Fertilizer – All Analyses** 

MAS

Newberg, OR. 97132

Version 1.0 | Effective Date: June 1, 2015

# **SECTION 1: IDENTIFICATION**

1.1. Product Identifier

Product Form: Mixture

**Product Name:** Granular Fertilizer – All Analyses

Other means of identification: Granular fertilizers including all chemical partially sulfur coated, 100% p o l y m e r or

sulfur coated nutrients, with and without micronutrients.

1.2. Intended Use of the Product

**Use of the substance/mixture:** Fertilizer for use by Landscape Professionals and Ornamental Nurseries.

1.3. Name, Address, and Telephone of the Responsible Party Company

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P.O. Box 732

Newberg, OR 97132 503-633-4281 1.4. Emergency Telephone Number

**Emergency Number:** 1-800-535-5053

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call INFOTRAC Day or Night

### **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the Substance or Mixture

# Classification (GHS-US)

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Eye Irrit. 2B H320
Skin Sens. 1 H317
STOT SE 3 H335
Aquatic Acute 3 H402
Aquatic Chronic 3 H412

#### 2.2. Label Elements

**GHS-US Labeling** 

**Hazard Pictograms (GHS-US)** 



Signal Word (GHS-US) : Warning

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**Hazard Statements (GHS-US)** 

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H320 - Causes eye irritation

H335 - May cause respiratory irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements (GHS-US)** 

P261 - Avoid breathing dust

P264 - Wash hands thoroughly after handling

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear eye protection, protective gloves, protective clothing

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position

comfortable for breathing

 ${\tt P305+P351+P338-IF\ IN\ EYES: Rinse\ cautiously\ with\ water\ for\ several\ minutes.}$ 

Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER/doctor/physician if you feel unwell

P321 - Specific treatment (see Section 4)

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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

P362 - Take off contaminated clothing and wash before reuse

P362+P364 - Take off contaminated clothing and wash it before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container according to local, regional, national, and

international regulations

2.3. Other Hazards

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

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Name	Product identifier	%	Classification (GHS-US)
Urea	(CAS No) 57-13-6	0.1 - 98	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Potassium Sulfate, SOP, Sulfate of Potash	(CAS No) 7778-80-5	0.1 - 95	Not classified
Diammonium phosphate	(CAS No) 7783-28-0	0.1 - 95	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335 Aquatic Acute 3, H402
Dicalcium Phosphate	(CAS No) 7757-93-9	0.1 - 95	Eye Irrit. 2B, H320
Calcium Phosphate	(CAS No) 7758-23-8	0.1 - 95	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Monoammonium phosphate	(CAS No) 7722-76-1	0.1 - 95	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Ammonium sulfate	(CAS No) 7783-20-2	0.1 - 95	Aquatic Acute 2, H401
Potassium chloride	(CAS No) 7447-40-7	0.1 - 95	Aquatic Acute 3, H40
Limestone	(CAS No) 1317-65-3	0.1 - 95	Not classified
Sulfur	(CAS No) 7704-34-9	0.1 - 20	Comb. Dust, H232 Flam. Sol. 2, H228 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
Iron oxide (Fe2O3)	(CAS No) 1309-37-1	0.1 - 10	Not classified
Urea, polymer with formaldehyde	(CAS No) 9011-05-6	0.1 - 10	Not classified
Magnesium sulfate (Epsom Salt)	(CAS No) 7487-88-9	0.1 - 10	Skin Sens. 1, H317
Saccharated Iron Oxide	(CAS No) 8047-67-4	0.1 - 10	Not Classified
Ferrous sulfate	(CAS No) 7720-78-7	0.1 - 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400
Manganese oxide (Mn3O4)	(CAS No) 1317-35-7	0.1 - 10	Not classified
Zinc Sulphate Monohydrate	(CAS No) 7446-19-7	0.1 - 10	Acute Tox. 4; H302 Aquatic Acute 1; H318 Aquatic Chronic 1; H410
Sulfate of Potash-Magnesia	(CAS No) 14977-37-8	0.1 - 10	Not classified
Ammonium Nitrate	(CAS No) 6484-52-2	0.1 - 50	Ox.Sol.3 H272 Eye Irrit. 2A H319
Digested Sewage Sludge (Class A Biosolids)	(CAS No) NA	0.1 - 50	Not classified

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Dolomite (CAS No) 16389-88-1 0.1 - 80 Not classified

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

First-aid Measures General: If medical advice is needed, have product container or label at hand.

**First-aid Measures After Inhalation**: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact**: Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

**First-aid Measures After Eye Contact**: Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion**: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

Symptoms/Injuries After Inhalation: Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

Symptoms/Injuries After Ingestion: If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Not considered flammable but will burn at high temperatures. . Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Decomposes above 132 °C (270 °F). Under conditions of fire this material may produce: Ammonia. Nitrogen oxides. Biuret. Cyanuric acid.

**Explosion Hazard:** May form explosive compounds if mixed with: Calcium hypochlorite. Sodium hypochlorite. Nitrates. Nitric acid. Perchloric acid. Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive. **Reactivity:** This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard).

#### 5.3. Advice for Firefighters

Firefighting Instructions: Not flammable.

Protection During Firefighting: Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures**: Handle in accordance with good industrial hygiene and safety practice. This material becomes slippery when wet.

#### 6.1.1. For Non-emergency Personnel

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**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection. **Emergency Procedures:** Collect as any solid. Ventilate area. Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection.

**Emergency Procedures:** If possible, stop flow of product. Contain and collect as any solid. Ventilate area. Evacuate unnecessary personnel.

6.2. Environmental Precautions

Avoid release to the environment.

# 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain and collect as any solid. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

**Methods for Cleaning Up:** Recover the product by vacuuming, shoveling or sweeping. Avoid generation of dust during clean-up of spills. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Material may be used if uncontaminated.

**6.4.** Reference to Other Sections. No additional information available.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** This material becomes slippery when wet.

**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment. Avoid creating or spreading dust.

Hygiene Measures: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

**Prohibitions on mixed storage:** Store away from: Ammonium nitrate. Refer to Section 10 on Incompatible Materials.

Special Rules on Packaging: Corrosive to copper and its alloys.

**7.3. Specific End Use(s)** Fertilizer use by Landscape Professionals and Ornamental Nurseries.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Limestone (1	317-65-3)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
Iron oxide (Fe	2203) (1309-37-1)	
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³
USA IDLH	US IDLH (mg/m³)	2500 mg/m³

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USA OSHA OSHA PEL (TWA) (mg/m³) 5 mg/m³

8.2. Exposure Controls

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**Appropriate Engineering Controls** : Ensure all national/local regulations are observed.

**Personal Protective Equipment** : Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.

For particulates and dust: Safety glasses.









**Hand Protection** : Protective gloves. **Eye Protection** : Safety glasses.

**Skin and Body Protection** : Wear suitable protective clothing.

**Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, NIOSH approved

respiratory protection should be worn.

**Environmental Exposure Controls** : Ensure adequate ventilation, especially in confined areas.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid

**Appearance** : Granules. Multi-colored.

Color : White

Odor : Slight. Pungent.
Odor Threshold : No data available
pH : No data available

pH solution : 10 %

Relative Evaporation Rate (butylacetate=1) : No data available **Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : No data available **Flash Point** : No data available **Auto-ignition Temperature** : No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : No data available **Vapor Pressure** : No data available Relative Vapor Density at 20 °C : No data available **Relative Density** : No data available Density <sup>1</sup> 45 (45 - 65) lb/ft<sup>3</sup>

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Solubility: Water: ModeratelyPartition coefficient: n-octanol/water: No data availableViscosity: No data available

9.2. Other Information No additional information available

### SECTION 10: STABILITY AND REACTIVITY

- **10.1 Reactivity:** This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. Prevent dust accumulation (to minimize explosion hazard).
- **10.2 Chemical Stability:** Stable at standard temperature and pressure.
- **10.3** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4 Conditions to Avoid:** Protect from moisture. Keep away from heat.
- **10.5** Incompatible Materials: May form explosive mixture if in contact with strong acid such as nitric or perchloric acids. Avoid contact with: Strong oxidizers. Strong acids, bases. Nitrates. Hypochlorites. Perchlorates. Chlorides. Corrosive to copper and its alloys.
- **10.6 Hazardous Decomposition Products:** Under conditions of fire this material may produce: Nitrogen oxides. Ammonia. Biuret. Carbon oxides (CO, CO2). Formaldehyde.

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Potassium Sulfate, SOP, Sulfate of P	otash (7778-80-5)	
LD50 Oral Rat	6600 mg/kg	
ATE (Oral)	6,600.00 mg/kg body weight	
Diammonium phosphate (7783-28-0	0)	
LD50 Oral Rat	6500 mg/kg	
LD50 Dermal Rabbit	> 7950 mg/kg	
ATE (Oral)	6,500.00 mg/kg body weight	
Potassium chloride (7447-40-7)		
LD50 Oral Rat	2600 mg/kg	
ATE (Oral)	2,600.00 mg/kg body weight	
Monoammonium phosphate (7722-	76-1)	
LD50 Oral Rat	5750 mg/kg	
LD50 Dermal Rabbit	> 7940 mg/kg	
ATE (Oral)	5,750.00 mg/kg body weight	
Ammonium sulfate (7783-20-2)		
LD50 Oral Rat	> 2000 mg/kg	
Sulfur (7704-34-9)		

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LD50 Oral Rat	> 3000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 9.23 mg/l/4h
Diacalium Phosphate (7757-93-9)	
LD50 Oral Rat	10000mg/kg (Rat)
LD50 Dermal Rabbit	7940 mg/kg (Rat)
ATE US (oral)	10000.0000000 mg/kg bodyweight
ATE US (demal)	7940.00000000 mg/kg bodyweight

Iron oxide (Fe2O3) (1309-37-1)	
LD50 Oral Rat	> 10000 mg/kg
Urea, polymer with formaldehyde (9011-0	5-6)
LC50 Inhalation Rat	> 167 mg/m³ (Exposure time: 4 h)
Ferrous sulfate (7720-78-7)	
LD50 Oral Rat	237 mg/kg
ATE (Oral)	237.00 mg/kg body weight
Ammonium nitrate (6484-52-2)	
LD50 Oral Rat	2217mg/kg
LC50 Inhalation Rat	>88.8mg/l/4h

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Iron oxide (Fe2O3) (1309-37-1)	
IRAC group	3

Reproductive Toxicity: Not classified.

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation. **Symptoms/Injuries After Eye Contact:** May cause eye irritation.

Symptoms/Injuries After Ingestion: If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting.

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# SECTION 12: ECOLOGICAL INFORMATION

## 12.1. Toxicity

890 mg/l (Exposure time: 48 h - Species: Daphnia magna) 1C 50 Fish 2 3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) Diammonium phosphate (7783-28-0) 1C50 Fish 1 26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 1C 50 Fish 2 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) 1C50 Fish 1 1060 mg/l (Exposure time: 96 h - Species: Daphnia magna) 1C 50 Fish 1 1060 mg/l (Exposure time: 48 h - Species: Daphnia magna) 1C 50 Fish 2 750 - 1020 mg/l (Exposure time: 48 h - Species: Daphnia magna) 1C 50 Fish 2 83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) 1C50 Fish 1 5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Daphnia magna [Static]) 1C50 Fish 1 5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) 1C50 Fish 1 5.2 (3.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) 1C50 Fish 2 32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) 1C50 Fish 1 866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) 1C50 Fish 1 866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) 1C50 Fish 1 866 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) 1C50 Fish 1 866 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static]) 1C50 Fish 1 2610 - 3080 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static]) 1C50 Fish 1 2610 - 3080 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static]) 1C50 Fish 1 925 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static]) 1C50 Fish 1 925 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static]) 1C50 Fish 1 925 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static])	Potassium Sulfate, SOP, Sulfate o	f Potash (7778-80-5)
Diammonium phosphate (7783-28-0) LC50 Fish 1  26.5 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Diammonium phosphate (7783-28-0) LC50 Fish 1  26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)  LC50 Fish 2  24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Potassium chloride (7447-40-7) LC50 Fish 1  1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1  825 mg/l (Exposure time: 48 h - Species: Daphnia magna) LC50 Fish 2  750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) EC50 Daphnia 2  83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ammonium sulfate (7783-20-2) LC50 Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 Daphnia 1  LC 50 Fish 2  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9) LC50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) LC50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9) LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7) LC50 Fish 1  925 mg/l (Exposure time: 48 h - Species: Daphnia magna)  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  153 mg/l (Exposure time: 48 h - Species: Daphnia magna)  154 mg/l (Exposure time: 48 h - Species: Daphnia magna)	LC50 Fish 1	653 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
Diammonium phosphate (7783-28-0)  LC50 Fish 1  26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Potassium chloride (7447-40-7)  LC50 Fish 1  1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  EC50 Daphnia 1  1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  EC50 Daphnia 1  EC50 Daphnia 2  38 mg/l (Exposure time: 96 h - Species: Daphnia magna)  EC50 Daphnia 2  Ammonium sulfate (7783-20-2)  LC50 Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  EC50 Daphnia 1  14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LC50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static])  EC50 Daphnia 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Daphnia magna [Static])  EC50 Daphnia 1  2610 - 3080 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  EC50 Daphnia 1  2610 - 3080 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  EC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 48 h - Species: Daphnia magna)  EC50 Daphnia 2  0.56 mg/l (Exposure time: 48 h - Species: Daphnia magna)	EC50 Daphnia 1	890 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LCSO Fish 1  26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)  LC 50 Fish 2  24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Potassium chloride (7447-40-7)  LCSO Fish 1  1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  ECSO Daphnia 1  825 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC 50 Fish 2  750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  ECSO Daphnia 2  83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ammonium sulfate (7783-20-2)  LCSO Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  ECSO Daphnia 1  14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LCSO Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LCSO Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  ECSO Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LCSO Fish 1  925 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  ECSO Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  ECSO Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC 50 Fish 2	3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Potassium chloride (7447-40-7)  LC50 Fish 1	Diammonium phosphate (7783-2	8-0)
Potassium chloride (7447-40-7)  LCSO Fish 1	LC50 Fish 1	26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LCSO Fish 1  1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  ECSO Daphnia 1  825 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  ECSO Daphnia 2  83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ammonium sulfate (7783-20-2)  LCSO Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  ECSO Daphnia 1  14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LC 50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  ECSO Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  ECSO Daphnia 1  152 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC 50 Fish 2	24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 1  825 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 2  83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ammonium sulfate (7783-20-2)  LC50 Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  EC50 Daphnia 1  14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LC50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 48 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna) [Static])	Potassium chloride (7447-40-7)	
LC 50 Fish 2  750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 2  83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ammonium sulfate (7783-20-2)  LC50 Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  EC50 Daphnia 1  14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LC50 Fish 2  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC50 Fish 1	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2  Ammonium sulfate (7783-20-2)  LC50 Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  LC50 Fish 2  Sulfur (7704-34-9)  LC50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  LC50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  LC50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 48 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna) [Static])	EC50 Daphnia 1	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Ammonium sulfate (7783-20-2)  LC50 Fish 1	LC 50 Fish 2	750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 Fish 1  5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LC 50 Fish 1  866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LC 50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC 50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC 50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC 50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	EC50 Daphnia 2	83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
14 mg/l (Exposure time: 48 h - Species: Daphnia magna)  32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])  Sulfur (7704-34-9)  LC50 Fish 1 866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2 14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1 2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1 266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1 925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1 152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2 0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2 6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Ammonium sulfate (7783-20-2)	
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Sulfur (7704-34-9)  LC50 Fish 1  B66 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	EC50 Daphnia 1	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 1  LC 50 Fish 2  14 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC 50 Fish 2	32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC 50 Fish 2  Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Sulfur (7704-34-9)	
Magnesium sulfate (7487-88-9)  LC50 Fish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  EC50 Daphnia 1  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC50 Fish 1	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Pish 1  2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC 50 Fish 2	14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
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Ferrous sulfate (7720-78-7)  LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  EC50 Daphnia 1  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Daphnia magna)  LC 50 Fish 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	LC50 Fish 1	2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	EC50 Daphnia 1	266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
LC50 Fish 1  925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])  152 mg/l (Exposure time: 48 h - Species: Daphnia magna)  LC 50 Fish 2  0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])  EC50 Daphnia 2  6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
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EC50 Daphnia 2 6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	EC50 Daphnia 1	152 mg/l (Exposure time: 48 h - Species: Daphnia magna)
	LC 50 Fish 2	0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
	EC50 Daphnia 2	6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Urea (5/-13-b)	Urea (57-13-6)	<u> </u>

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LC50 Fish 1	16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

#### 12.2. Persistence and Degradability

Granular Fertilizer – All Analyses	
Persistence and Degradability	May cause long-term adverse effects in the environment. This product is water soluble and eventually biodegrades into elemental nitrogen. Excess nitrogen and nitrates in a body of water will contribute to eutrophication with visible effects such as toxic algae bloom.

#### 12.3. Bioaccumulative Potential

Diammonium phosphate (7783-28-0)	
BCF fish 1	(no bioaccumulation expected)
Monoammonium phosphate (7722-7	<sup>7</sup> 6-1)
BCF fish 1	(no bioaccumulation expected)
Ammonium sulfate (7783-20-2)	
Log Pow	-5.1 (at 25 °C)
Urea (57-13-6)	
BCF fish 1	< 10
Log Pow	-1.59 (at 25 °C)
Ammonium nitrate (6484-52-2)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	-3.1 (at 25 °C)

- 12.4. Mobility in Soil No additional information available
- 12.5. Other Adverse Effects: No additional information available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways. **Waste Disposal Recommendations:** Place in an appropriate container and dispose of the contaminated material at a licensed site.

Additional Information: Dispose of waste material in accordance with all local, regional, national, and international regulations.

## **SECTION 14: TRANSPORT INFORMATION**

- **14.1 In Accordance with DOT** Not regulated for transport
- 14.2 In Accordance with IMDG Not regulated for transport

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14.3 In Accordance with IATA Not regulated for transport

# SECTION 15: REGULATORY INFORMATION

## 15.1 US Federal Regulations

Granular Fertilizer – All Analyses	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Potassium Sulfate, SOP, Sulfate of Potash (7778-80-5)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Diammonium phosphate (7783-28-0)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Potassium chloride (7447-40-7)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Monoammonium phosphate (7722-76-1)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Ammonium sulfate (7783-20-2)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Limestone (1317-65-3)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Sulfur (7704-34-9)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Iron oxide (Fe2O3) (1309-37-1)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Urea, polymer with formaldehyde (9011-05-6)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Magnesium sulfate (7487-88-9)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Ferrous sulfate (7720-78-7)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Manganese oxide (Mn3O4) (1317-35-7)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory
Urea (57-13-6)	
Listed on the United States TSCA (Toxic Substances Contro	ol Act) inventory

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### Ammonium nitrate (6484-52-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2 US State Regulations

#### Ammonium sulfate (7783-20-2)

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

#### Limestone (1317-65-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### Sulfur (7704-34-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### Iron oxide (Fe2O3) (1309-37-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### Ferrous sulfate (7720-78-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

#### Manganese oxide (Mn3O4) (1317-35-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

**CA Proposition 65**: This product contains chemicals known to the state of California to cause cancer or birth defects on other reproductive harm.

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date:** 05/13/2015

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard

Communication Standard 29 CFR 1910.1200.

#### **GHS Full Text Phrases:**

Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4
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**Granular Fertilizer – All Analyses** 

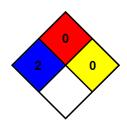
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Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Comb. Dust	Combustible Dust
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Sol. 2	Flammable solids Category 2
Ox. Sol. 3	Oxidizing solids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H228	Flammable solid
H232	May form combustible dust concentrations in air
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA Fire Hazard	0	Materials that will not burn.	
NFPA Reactivity	0	Normally stable, even under fire exposure conditions, and are not reactive with water.	
NFPA Health Hazard	2	Intense or continued exposure could cause temporary incapacitation or possible residual injury	
		unless prompt medical attention is given.	



**EMERGENCY NUMBER: 1-800-535-5053** 

**Granular Fertilizer – All Analyses** 

MAS

Newberg, OR. 97132

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