



# St. Paul Brand SAFETY DATA SHEET

**Granular Fertilizer – All Analysis  
with Prodiamine – (0.20%,0.37%)**

EMERGENCY NUMBER (INFOTRAC): 1-800- 535-5053

MARION AG SERVICE, INC.

SAINT PAUL, OREGON 97137

Version 1.0 | Effective Date: November 30, 2015

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** St Paul Brand Granular Fertilizer All Analyses with Prodiamine (0.20%, 0.37%)

**Product code:** EPA Registration No: 53883-173 (0.20%), 53883-172 (0.37%)

**Synonyms:** Granular Fertilizer with Herbicide; Prodiamine

**Other means of identification:** Granular dry fertilizers including all chemical, partially sulfur coated, 100% polymer or sulfur coated nutrients, with and without micronutrients with Prodiamine.

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Herbicide & Fertilizer for use by Landscape Professionals.

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

Marion Ag Service Inc.

7749 St Paul Hwy

Saint Paul, OR 97137

### 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)

Acute Tox. 4 (Oral) H302

Skin Irrit. 2 H315

Eye Irrit: 2A H319

Skin Sens. 1 H317

STOT SE 3 H335

Aquatic Acute 2 H401

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)

H302 – Harmful if swallowed  
H315 – Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H401 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements (GHS-US)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash hands thoroughly after handling  
P270 – Do not eat, drink or smoke when using this product  
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, face protection  
P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
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  
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)  
P330 – If swallowed, rinse mouth  
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 Not contributing to the Classification: 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



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### 3.2. Mixture

| Name                                      | Product identifier  | %        | Classification (GHS-US)  |
|---|---------------------|----------|--|
| Urea                                      | (CAS No) 57-13-6    | 0.1 - 98 | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320   |
| Diammonium phosphate                      | (CAS No) 7783-28-0  | 0.1 - 95 | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>STOT SE 3, H335<br>Aquatic Acute 3, H402                                 |
| Potassium chloride                        | (CAS No) 7447-40-7  | 0.1 - 95 | Aquatic Acute 3, H402  |
| Monoammonium phosphate                    | (CAS No) 7722-76-1  | 0.1 - 95 | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>STOT SE 3, H335  |
| Ammonium sulfate                          | (CAS No) 7783-20-2  | 0.1 - 95 | Aquatic Acute 2, H401  |
| Limestone                                 | (CAS No) 1317-65-3  | 0.1 - 95 | Not classified   |
| Sulfur                                    | (CAS No) 7704-34-9  | 0.1 - 20 | Comb. Dust, H232<br>Flam. Sol. 2, H228<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Aquatic Acute 3, H402          |
| Iron oxide (Fe2O3)                        | (CAS No) 1309-37-1  | 0.1 - 10 | Not classified   |
| Saccharated Iron Oxide                    | (CAS No) 8047-67-4  | 0.1-10   | Not classified   |
| Urea, polymer with formaldehyde           | (CAS No) 9011-05-6  | 0.1 - 10 | Not classified   |
| Magnesium sulfate                         | (CAS No) 7487-88-9  | 0.1 - 10 | Skin Sens. 1, H317   |
| Ferrous sulfate                           | (CAS No) 7720-78-7  | 0.1 - 10 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 |
| Manganese oxide (Mn3O4)                   | (CAS No) 1317-35-7  | 0.1 - 10 | Not classified   |
| Manganese Sulfate                         | (CAS No) 7439-96-5  | 0.1-5    | Not classified   |
| 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<br>Eye Irrit. 2A H319   |
| Bentonite                                 | (CAS No) 1302-78-9  | 0.1-50   | Not classified   |
| Sodium chloride                           | (CAS No) 7647-14-5  | 0.1-5    | Not classified   |
| Potassium Sulfate, SOP, Sulfate of Potash | (CAS No) 7778-80-5  | 0.1-50   | Not classified   |



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|   |                     |           |                |
|---|---------------------|-----------|----------------|
| Carbonic acid, magnesium salt (1:1), mixture with magnesium hydroxide (Mg(OH) <sub>2</sub> ), hydrate | (CAS No) 39409-82-0 | 0.1-10    | Not classified |
| Digested Sewage Sludge (Class A Biosolids)  | (CAS No) NA         | 0.1-50    | Not classified |
| Prodiamine: 2,4-dinitro-N3,N3-dipropyl-6-(trifluoromethyl)-1,3-benzenediamine                         | (CAS No) 29091-21-2 | 0.07-0.22 | 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. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible).

**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. Call a POISON CENTER/doctor/physician if you feel unwell.

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

**Symptoms/injuries:** Harmful if swallowed. Eye irritation. Causes skin irritation. May cause an allergic reaction in sensitive individuals. May cause respiratory irritation.

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system and mucous membranes. May cause cancer by inhalation. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation or an allergic skin reaction.

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

**Symptoms/Injuries After Ingestion:** Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

**Chronic Symptoms:** May cause cancer.

### 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:** Alcohol foam, dry chemical, carbon dioxide, water spray, fog. Use extinguishing media appropriate for surrounding fire.



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**Unsuitable Extinguishing Media:** Do not use water jet. Use of heavy stream of water may spread fire.

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

**Fire Hazard:** Not considered flammable but will burn at high temperatures. Decomposes above 132 °C (270 °F). Under conditions of fire this material may produce: Ammonia. Nitrogen oxides. Biuret.

**Explosion Hazard:** May form explosive compounds if mixed with: Calcium hypochlorite. Sodium hypochlorite. Nitrates. Nitric acid. Per chloric 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. Exercise caution when fighting any chemical fire.

**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 firefighting 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. Avoid all eyes and skin contact and do not breathe vapor and mist. So not allow product to spread into the environment

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection. Use appropriate personal protection equipment (PPE)

**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. Equip cleanup crew with proper protection. Use appropriate personal equipment (PPE)

**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. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

### 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. Clear up spills immediately and dispose of waste safely.

**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.



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**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment. Avoid creating or spreading dust. Obtain special instruction before use. Do not handle until all safety precaution have been read and understood. Avoid breathing dust/ fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

**Hygiene Measures:** Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**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. Keep container closed when not in use.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

**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.**

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

| Limestone (1317-65-3)          |   |                        |
|--------------------------------|---|------------------------|
| USA NIOSH                      | NIOSH REL (TWA) (mg/m <sup>3</sup> )    | 5 mg/m <sup>3</sup>    |
| USA OSHA                       | OSHA PEL (TWA) (mg/m <sup>3</sup> )     | 5 mg/m <sup>3</sup>    |
| Iron oxide (Fe2O3) (1309-37-1) |   |                        |
| USA ACGIH                      | ACGIH TWA (mg/m <sup>3</sup> )          | 5 mg/m <sup>3</sup>    |
| USA NIOSH                      | NIOSH REL (TWA) (mg/m <sup>3</sup> )    | 5 mg/m <sup>3</sup>    |
| USA IDLH                       | US IDLH (mg/m <sup>3</sup> )            | 2500 mg/m <sup>3</sup> |
| USA OSHA                       | OSHA PEL (TWA) (mg/m <sup>3</sup> )     | 5 mg/m <sup>3</sup>    |
| Manganese (7439-96-5)          |   |                        |
| USA ACGIH                      | ACGIH TWA (mg/m <sup>3</sup> )          | 0.1 mg/m <sup>3</sup>  |
| USA NIOSH                      | NIOSH REL (TWA) (mg/m <sup>3</sup> )    | 1 mg/m <sup>3</sup>    |
| USA NIOSH                      | NIOSH REL (STEL) (mg/m <sup>3</sup> )   | 3mg/m <sup>3</sup>     |
| USA IDLH                       | US IDLH (mg/m <sup>3</sup> )            | 500 mg/m <sup>3</sup>  |
| USA OSHA                       | OSHA PEL (ceiling) (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup>    |
|                                |   |                        |



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| Magnesium oxide (MgO) (1309-48-4) |                                     |                       |
|-----------------------------------|-------------------------------------|-----------------------|
| USA ACGIH                         | ACGIH TWA (mg/m <sup>3</sup> )      | 10 mg/m <sup>3</sup>  |
| USA IDLH                          | US IDLH (mg/m <sup>3</sup> )        | 750 mg/m <sup>3</sup> |
| USA OSHA                          | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup>  |

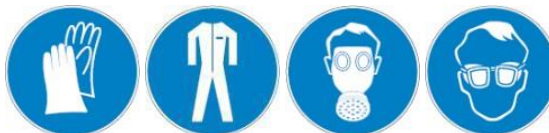
## 8.2. Exposure Controls

### 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.



### Materials for Protective Clothing

: Chemically resistant materials and fabrics.

### Hand Protection

: Protective gloves.

### Eye Protection

: Chemical goggles or 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.

### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

#### Physical State

: Solid

#### Appearance

: Granules. Multi-colored.

#### Odor

: Ammonia. Slight sulfurous

#### Odor Threshold

: No data available

#### pH

: No data available

#### pH solution

: 10 %

#### Relative Evaporation Rate (butylacetate=1)

: No data available

#### Melting Point

: 133°C (271.4°F) Urea

#### Freezing Point

: No data available

#### Boiling Point

: No data available

#### Flash Point

: No data available

#### Auto-ignition Temperature

: No data available



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|  |                                   |
|--|-----------------------------------|
| 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                                | : 45 (45 - 65) lb/ft <sup>3</sup> |
| Solubility                             | : Water: Moderately               |
| Partition coefficient: n-octanol/water | : No data available               |
| Viscosity                              | : 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:** Harmful if swallowed

| <b>Potassium Sulfate, SOP, Sulfate of Potash (7778-80-5)</b> |                            |
|--|----------------------------|
| LD50 Oral Rat  | 6600 mg/kg                 |
| ATE (Oral)   | 6,600.00 mg/kg body weight |
| <b>Diammonium phosphate (7783-28-0)</b>                      |                            |
| LD50 Oral Rat  | 6500 mg/kg                 |
| LD50 Dermal Rabbit   | > 7950 mg/kg               |
| ATE (Oral)   | 6,500.00 mg/kg body weight |
|  |                            |





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|  |  |
|--|--|
| <b>Potassium chloride (7447-40-7)</b>              |  |
| LD50 Oral Rat                                      | 2600 mg/kg                                   |
| ATE (Oral)   | 2,600.00 mg/kg body weight                   |
| <b>Monoammonium phosphate (7722-76-1)</b>          |  |
| LD50 Oral Rat                                      | 5750 mg/kg                                   |
| LD50 Dermal Rabbit                                 | > 7940 mg/kg                                 |
| ATE (Oral)   | 5,750.00 mg/kg body weight                   |
| <b>Ammonium sulfate (7783-20-2)</b>                |  |
| LD50 Oral Rat                                      | > 2000 mg/kg                                 |
| <b>Sulfur (7704-34-9)</b>                          |  |
| LD50 Oral Rat                                      | > 3000 mg/kg                                 |
| LD50 Dermal Rabbit                                 | > 2000 mg/kg                                 |
| LC50 Inhalation Rat                                | > 9.23 mg/l/4h                               |
| <b>Iron oxide (Fe2O3) (1309-37-1)</b>              |  |
| LD50 Oral Rat                                      | > 10000 mg/kg                                |
| <b>Urea, polymer with formaldehyde (9011-05-6)</b> |  |
| LC50 Inhalation Rat                                | > 167 mg/m <sup>3</sup> (Exposure time: 4 h) |
| <b>Urea (57-13-6)</b>                              |  |
| ATE ( Oral)  | 8471.000 mg/kg                               |
| <b>Ferrous sulfate (7720-78-7)</b>                 |  |
| LD50 Oral Rat                                      | 237 mg/kg                                    |
| ATE (Oral)   | 237.00 mg/kg body weight                     |
| <b>Sodium chloride (7647-14-5)</b>                 |  |
| LD50 Oral Rat                                      | 3 g/kg                                       |
| LC50 Inhalation Rat                                | > 42 g/m <sup>3</sup> (Exposure time:1h)     |
| <b>Ammonium Nitrate (6484-52-2)</b>                |  |
| LD50 Oral Rat                                      | 2217 mg/kg                                   |
| LC50 Inhalation Rat                                | >88.8 mg/l/4h                                |
| <b>Bentonite (1302-78-9)</b>                       |  |
| LD50 Oral Rat                                      | > 5000 mg/kg                                 |



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|                                |                           |
|--------------------------------|---------------------------|
| <b>Manganese (7439-96-5)</b>   |                           |
| ATE Oral Rat                   | 9000.00 mg/kg body weight |
| <b>Prodiamine (29091-21-2)</b> |                           |
| LD50 Oral Rat                  | > 5,000 mg/kg             |
| LD50 Dermal Rat                | >2,000 mg/kg              |
| LC50 Inhalation Rat            | 1.81 mg/L air (4-hours)   |

**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.

|   |   |
|---|---|
| <b>Iron oxide (Fe2O3) (1309-37-1)</b>     |   |
| IRAC group                                | 3 |
| <b>Saccharated Iron oxide (8047-67-4)</b> |   |
| 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

**Potential Adverse Human Health Effects and Symptoms:** Harmful if swallowed.

**Symptoms/Injuries After Inhalation:** Irritating to the respiratory system and mucous membranes. May cause cancer by inhalation. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** Cause skin irritation. May cause an allergic skin reaction.

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

**Symptoms/Injuries After Ingestion:** Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology – General:** Harmful to aquatic life with long lasting effects.

|  |   |
|--|---|
| <b>Potassium Sulfate, SOP, Sulfate of Potash (7778-80-5)</b> |   |
| LC50 Fish 1  | 653 mg/l (Exposure time: 96 h – Species: Lepomis macrochirus)     |
| EC50 Daphnia 1   | 890 mg/l (Exposure time: 48 h – Species: Daphnia magna)           |
| EC50 Other Aquatic Organisms 1                               | 2900 mg/l (Exposure time: 72h – Species: Desmodesmus subspicatus) |



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|   |   |
|---|---|
| LC 50 Fish 2                            | 3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                     |
| <b>Diammonium phosphate (7783-28-0)</b> |   |
| LC50 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])        |
| <b>Potassium chloride (7447-40-7)</b>   |   |
| 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)                                     |
| 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])                             |
| <b>Ammonium sulfate (7783-20-2)</b>     |   |
| 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]) |
| <b>Sulfur (7704-34-9)</b>               |   |
| 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])                       |
| <b>Magnesium sulfate (7487-88-9)</b>    |   |
| 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])                  |
| <b>Ferrous sulfate (7720-78-7)</b>      |   |
| 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])                    |
| <b>Urea (57-13-6)</b>                   |   |
| 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])                           |



# St. Paul Brand SAFETY DATA SHEET

**Granular Fertilizer – All Analysis  
with Prodiamine – (0.20%,0.37%)**

EMERGENCY NUMBER (INFOTRAC): 1-800- 535-5053

MARION AG SERVICE, INC.  
SAINT PAUL, OREGON 97137

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|                                    |   |
|------------------------------------|---|
| <b>Bentonite (1302-78-9)</b>       |   |
| LC50 Fish 1                        | 19000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])                  |
| <b>Sodium chloride (7647-14-5)</b> |   |
| LC50 Fish 1                        | 5560 (5560-6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| EC50 Daphnia 1                     | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                  |
| LC 50 Fish 2                       | 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                  |
| EC50 Daphnia 2                     | 340.7 (340.7-469.2) mg/l (Exposure time: 48h – Species: Daphnia magna [static])           |

## 12.2. Persistence and Degradability

|   |   |
|---|---|
| <b>Granular Fertilizer – All Analyses with Prodiamine</b> |   |
| <b>Persistence and Degradability</b>                      | 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

|   |                               |
|---|-------------------------------|
| <b>Diammonium phosphate (7783-28-0)</b>   |                               |
| BCF fish 1                                | (no bioaccumulation expected) |
| <b>Monoammonium phosphate (7722-76-1)</b> |                               |
| BCF fish 1                                | (no bioaccumulation expected) |
| <b>Ammonium sulfate (7783-20-2)</b>       |                               |
| Log Pow                                   | -5.1 (at 25 °C)               |
| <b>Urea (57-13-6)</b>                     |                               |
| BCF fish 1                                | < 10                          |
| Log Pow                                   | -1.59 (at 25 °C)              |
| <b>Sodium chloride (7647-14-5)</b>        |                               |
| BCF fish 1                                | (no bioaccumulation)          |
| <b>Ammonium Nitrate (6484-52-2)</b>       |                               |
| 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:** Avoid release into the environment



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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Disposal Recommendations:** Pesticide: Wastes resulting from the use of this product that cannot be used or chemically reprocesses should be disposed of in a landfill approved for pesticide disposal or on accordance with applicable federal, State or local procedures. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance and applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT** Not regulated for transport

**14.2 In Accordance with IMDG** Not regulated for transport

**14.3 In Accordance with IATA** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

|   |   |
|---|---|
| <b>Granular Fertilizer – All Analyses with Prodiamine</b>                 |   |
| <b>EPA TSCA Regulatory Flag</b>   | This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. |
| <b>SARA Section 311/312 Hazard Classes</b>                                | Immediate (acute) health hazard<br>Delayed (chronic) health hazard  |
| <b>Potassium Sulfate, SOP, Sulfate of Potash (7778-80-5)</b>              |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |   |
| <b>Diammonium phosphate (7783-28-0)</b>                                   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |   |
| <b>Potassium chloride (7447-40-7)</b>                                     |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |   |
| <b>Monoammonium phosphate (7722-76-1)</b>                                 |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |   |
| <b>Ammonium sulfate (7783-20-2)</b>                                       |   |



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|   |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Limestone (1317-65-3)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Sulfur (7704-34-9)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Iron oxide (Fe2O3) (1309-37-1)</b>                                     |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Urea, polymer with formaldehyde (9011-05-6)</b>                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Magnesium sulfate (7487-88-9)</b>                                      |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Ferrous sulfate (7720-78-7)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Manganese oxide (Mn3O4) (1317-35-7)</b>                                |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
|   |
| <b>Urea (57-13-6)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Ammonium nitrate (6484-52-2)</b>                                       |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
|   |
| <b>Bentonite (1302-78-9)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Magnesium oxide (MgO) (13609-48-4)</b>                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| <b>Manganese (7439-96-5)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Listed on SARA Section 313 (specific toxic chemical listing)              |
| <b>SARA Section 313 – Emission Reporting</b>                              |



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**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:** 11/30/2015

**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                                 |
| 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                                      |
| Ox. Sol. Not classified. | Oxidizing solids not classified                                  |
| 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                  |
| H272                     | May intensify fire: oxidizer                                     |
| H302                     | Harmful if swallowed   |
| 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                                 |
| H400                     | Very toxic to aquatic life                                       |
| H401                     | Toxic to aquatic life  |
| H402                     | Harmful to aquatic life  |
| H412                     | Harmful to aquatic life with long lasting effects                |



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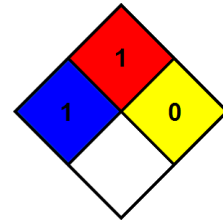
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|  |  |
|--|--|
|  |  |
|--|--|

- NFPA Health Hazard** : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA Fire Hazard** : 1 - Must be preheated before ignition occurs.
- NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
- HMIS III Rating**
- Health** : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability** : 1 Slight Hazard
- Physical** : 0 Minimal Hazard



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Marion Ag Service Inc. | 7749 St Paul Hwy / Saint Paul, OR 97137