



St. Paul Brand SAFETY DATA SHEET

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

Granular Fertilizer – Premix 2000

MARION AG SERVICE, INC.

AURORA, OREGON 97002

Version 1.0 | Effective Date: May 18, 2015

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture
Product Name: St. Paul Brand Premix 2000
Other means of identification:

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

Marion Ag. Service Inc.
9400 St. Paul Hwy NE
Aurora, OR 97002

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. 3	H316
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Eye Irrit. 2B	H320
Ingestion	H303
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)

H303 - May be 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
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
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



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Vegetable Oil Triglycerides from <i>Camelina sativa</i>	(CAS No) 689-68-3	0.1 - 100	Not classified
Crab and Shrimp Meal	n/a	n/a	Not classified
Urea Formaldehyde Polymer	(CAS No) 9011-05-6	99 - 100	Not classified
Limestone	(CAS No.) 1317-65-3	60 - 100	Not classified
Magnesium Carbonate	(CAS No.) 546-93-0	0.1 - 35	Not classified
Silica, amorphous	(CAS No) 7631-86-9	0.5 - 3	Not classified
Iron Oxide (Fe ₂ O ₃)	(CAS No) 1309-37-1	0.1 - 1	Not classified
Aluminum oxide	(CAS No) 1344-28-1	0.1 - 1	Not classified
Sulfur	(CAS No) 7704-34-9	0.1 - 0.5	Skin Irrit. 2, H315
Quartz	(CAS No) 14808-60-7	0.1 - 0.3	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 STOT RE 1, H372
Sodium Oxide (Na ₂ O)	(CAS No) 1313-59-3	0.1 - 0.2	Skin Corr. 1B, H314
Potassium Oxide	(CAS No) 12136-45-7	<0.1	Not classified
Manganese(III) oxide	(CAS No) 39432-47-8	<0.1	Not classified
Calcium Sulfate	(CAS No) 13397-24-5	0.1 - 85	Not classified
Crystalline Silica	(CAS No) 14808-60-7	0 - 3	Not classified
Potassium Magnesium Sulfate (Langbeinite)	(CAS No) 14977-37-8	88 - 99.8	Not classified
Sodium Chloride	(CAS No) 7647-14-5	0.5 - 12	Not classified
Calcium Phosphate	(CAS No) 7758-23-8	84 - 88	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Dicalcium Phosphate	(CAS No) 7757-93-9	12 - 16	Eye Irrit. 2B, H320
Dolomite	(CAS No) 16389-88-1	<95	Not classified
Sodium aluminosilicate	(CAS No) 12173-10-3	0.1 - 10	Oral Tox. 5, H303 Skin Irrit. 3, H316 Eye Irrit. 2B, H320 STOT SE 3, H335



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Ferrous Sulfate Monohydrate	(CAS No) 7720-78-7	<98	Not classified
Humic Acid	(CAS No) 1415-93-6	0.1 - 6	Not classified
Olivine	(CAS No) 19086-72-7	0.1 - 98	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, drink plenty of water and induce vomiting if conscious: 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: Water fog, water spray, carbon dioxide (CO₂), Foam, dry powder, sand. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy stream of water. Do not use halogenated compounds.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Above 1450 degrees Celsius - decomposes to calcium oxide (CaO) and sulfur dioxide (SO₂).

Explosion Hazard: Dust or fumes may cause explosive mixtures in air.



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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: Limit the spread of oil.

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.

6.1.1. For Non-emergency Personnel

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

Prevent from entering into soil, ditches, sewers, waterways, and/or groundwater.

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 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. Rinse area with clean water and dry before permitting traffic.

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: Launder clothing before use. 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. Keep away from heat, sparks, and flame.

Prohibitions on mixed storage: Strong bases, strong acids, sources of ignition, direct sunlight.

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

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



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

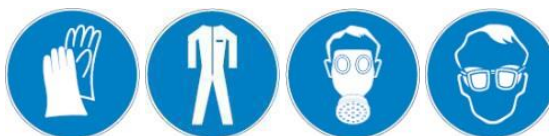
Limestone (1317-65-3)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
Iron oxide (Fe2O3) (1309-37-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
USA IDLH	US IDLH (mg/m ³)	2500 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls

Personal Protective Equipment

- : Do not eat, smoke, or drink where product is handled, processed, or stored.
- : Provide ventilation sufficient to control airborne dust levels.
- : Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.
- For particulates and dust: Safety glasses.



Hand Protection

Eye Protection

Skin and Body Protection

Respiratory Protection

- : Protective gloves.
- : Safety glasses.
- : Wear suitable protective clothing.
- : 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

: Multi-colored.

Odor

: Slight. Pungent.

Odor Threshold

: No data available

pH

: No data available



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pH solution	: No data available
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	: No data available
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. Reactive Fluoridated Compunds. Reactive Brominated Compounds. Reactive Powdered Metals. Ammonium Salts.
- 10.6 Hazardous Decomposition Products:** Above 1450 degrees Celsius - decomposes to calcium oxide (CaO) and sulfur dioxide (SO₂)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Hydrogen chloride (1310-58-3)	
LD50 Oral Rat	700 mg/kg
LD50 Dermal Rabbit	>5,101 mg/kg



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Ground Limestone (Agricultural Lime)	
ATE Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
ATE (inhalation)	> 5 mg/L 4h, rat
Potassium hydroxide (1310-58-3)	
LD50 Oral Rat	214 mg/kg
LD50 Dermal Rabbit	>5101 mg/kg
Sodium Chloride	
LD50 Oral Rat	4 g/kg
LD50 Dermal Rabbit	> 100 mg/24 hour
LD50 Oral Mouse	3 g/kg
Quartz	
LD50 Oral Rat	> 500 mg/kg
Sulfur (7704-34-9)	
LD50 Oral Rat	> 3000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 9.23 mg/l/4h
Iron oxide (Fe2O3) (1309-37-1)	
LD50 Oral Rat	> 10000 mg/kg
Silica, amorphous (7631-86-9)	
LC50 Oral Rat	> 5000 mg/kg
Ferrous sulfate (7720-78-7)	
LD50 Oral Rat	237 mg/kg
ATE (Oral)	237.00 mg/kg body weight
Triple Superphosphate 0-45-0	
LD50 Oral Rat	17500 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Calcium Phosphate (7758-23-8)	
LD50 Oral Rat	17500 mg/kg (Rat:Literature)
LD50 Dermal Rabbit	> 2000 mg/kg (Rabbit; Literature)
ATE US (oral)	17500.00000000 mg/kg bodyweight



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Dicalcium Phosphate (7757-93-9)	
LD50 Oral Rat	10000 mg/kg (Rat)
LD50 Dermal Rabbit	7940 mg/kg (rat)
ATE US (oral)	10000.00000000 mg/kg bodyweight
ATE US (dermal)	7940.00000000 mg/kg bodyweight

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.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: Harmful to aquatic life.

Potassium hydroxide	
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)
LC 50 Fish 2	3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])



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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

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



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SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Limestone (1317-35-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Magnesium carbonate (546-93-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Silica, amorphous (7631-86-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Iron Oxide (Fe₂O₃) (1309-37-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Aluminum oxide (1344-28-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sulfur (7704-34-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Iron oxide (Fe₂O₃) (1309-37-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory



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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
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



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Additional Product Information:

This product is made from natural products and may contain naturally occurring microorganisms. Proper precautions are advised to prevent infection of open wounds, inhalation of excessive amounts of dust and eye irritation. The proper hygiene practices necessary to prevent health hazards from any naturally occurring substance such as soil, bark, etc., should be observed.

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