

Safety Data Sheet

Section 1 Product Information

Product Name: 18-0-5 STD, .42 PRODIAMINE, 50% DUR 45, 10% AM-SUL, MOP

Product Code: 2078763

Manufactured by:

Phone: 1-800-635-2123

Vogel Seed & Fertilizer LLC

1891 Spring Valley Rd.

Jackson, WI 53037

Product Use: Granular blended fertilizer for general horticultural use.

Not recommended for: Not recommended for use in or around bodies of water.

Section 2 Hazards

GHS ratings	
Eye Corrosive	2A Eye irritant: Subcategory 2A, reversible in 21 days.
Carcinogen	1B Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
GHS Hazards	
H319	Causes serious eye irritation
H350	May cause cancer
GHS Precautions	
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash ... thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P405	Store locked up

P501	Dispose of contents/container in accordance with local, state, and federal laws.
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Signal Word: Danger



Section 3 Composition

Description	CAS	Content
Ammonium phosphate monobasic	7722-76-1	Varies
Ammonium Sulfate	7783-20-2	Varies
Benfluralin	1861-40-1	Varies
Bifenthrin	82657-04-3	Varies
Biodac	Biodac	Varies
Bio-solids	308066-19-5	Varies
Calcium Oxide	1305-78-8	Varies
Calcium Sulfate	778-18-9	Varies
Copper Oxide	1317-38-0	Varies
Copper Sulfate	7758-99-8	Varies
Diatomaceous Earth	61790-53-2	Varies
Dicyandiamide	461-58-5	Varies
Dimethylamine dicamba	2300-66-5	Varies
Imidacloprid	138261-41-3	Varies
Iron Oxide	1309-37-1	Varies
Iron Sulfate	7720-78-7	Varies
Isobutylidene Diurea	6104-30-9	Varies
Kaolin Clay	13332-58-7	Varies
Lime	16389-88-1	Varies
Magnesium Ammonium Phosphate	13478-16-5	Varies
Magnesium Oxide	1309-48-4	Varies
Manganese Oxide	1344-43-0	Varies
Manganese Sulfate	7785-87-7	Varies
MCPP-P Dimethylamine Salt	66423-09-4	Varies
Monoammonium Phosphate	7783-28-0	Varies
N-(n-Butyl)thiophosphoric triamide	94317-64-3	Varies
N-methyl pyrrolidone	872-50-4	Varies
Oxadiazon	19666-30-9	Varies
Prodiamine	29091-21-2	Varies
Potassium	13845-36-8	Varies
Potassium Chloride	7447-40-7	Varies

Potassium Magnesium Sulfate	14977-37-8	Varies
Prodiamine	29091-21-2	Varies
Propylene Glycol	57-55-6	Varies
Silica Dioxide	7631-86-9	Varies
Sodium Calcium Borate	1319-33-1	Varies
Sodium Chloride	7647-14-5	Varies
Sodium Molybdate	7631-95-1	Varies
Sulfate of Potash	7778-80-5	Varies
Sulfate of Potash magnesia	17977-38-8	Varies
Sulfentrazone	122836-35-5	Varies
Trifluralin	1582-09-8	Varies
Urea Formaldehyde polymer	9011-05-6	Varies
Urea Granular	57-13-6	Varies
Wolftrax DDP	7439-89-6	Varies
Zinc Oxide	1314-13-2	Varies
Zinc Sulfate	7733-02-0	Varies

Section 4 First Aid

Inhalation: Remove to fresh air, if irritation of lungs persists contact physician .

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Wash with soap and water. Contact physician if irritation persists.

Ingestion: No emergency medical treatment necessary.

General Advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Most important symptoms and affects, both acute and delayed: Aside from the information found under Section 4 First Aid and

Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

Section 5 Fire Fighting

Flash point: N/A LEL: N/A UEL: N/A

Suitable extinguishing media: Water fog of fine spray. Dry Chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

Unsuitable extinguishing media: None.

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides, Hydrogen fluoride, Hydrogen chloride, Carbon monoxide, Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may melt from gas generation in a fire situation Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is produced when product burns.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Hand held dry chemical or carbon dioxide extinguishers may be used on small fires.

Move container from fire area if this is possible without hazard. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections fo this SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting

helmet, coat, trousers, boots, and gloves) If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions; prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 Ecological information.

Small spills: Sweep up, collect in suitable and properly labeled containers.

Section 7 Handling and Storage

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks, and flame. Good housekeeping and controlling of dusts are necessary for safe handling of product. Wash thoroughly after handling. Use with adequate ventilation.

Conditions for safe storage: Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

Section 8 Exposure and Personal Protection

Substance	OSHA Exposure Limit / Notes
Ammonium phosphate monobasic	PNOR: 15 mg/m ³ total / 5 mg/m ³ resp
Ammonium Sulfate	PNOR: 15 / 5 mg/m ³
Benfluralin	PNOR: 15 / 5 mg/m ³
Bifenthrin	PNOR: 15 / 5 mg/m ³
Biodac	PNOR: 15 / 5 mg/m ³ (check SDS)
Bio-solids	Variable composition, PNOR or specific contaminants
Calcium Oxide	5 mg/m ³ (TWA)
Calcium Sulfate	PNOR: 15 / 5 mg/m ³
Copper Oxide	Fume: 0.1 mg/m ³ (as Cu, TWA); Dusts/mists/salts: 1 mg/m ³
Copper Sulfate	1 mg/m ³ (as Cu, TWA)
Diatomaceous Earth	PNOR unless crystalline silica present (then silica PEL 0.05 mg/m ³)
Dicyandiamide	PNOR: 15 / 5 mg/m ³
Dithiopyr	PNOR: 15 / 5 mg/m ³
Iron Oxide	10 mg/m ³ (TWA total particulate)
Iron Sulfate	PNOR: 15 / 5 mg/m ³

Isobutylidene diurea	PNOR: 15 / 5 mg/m ³
Kaolin Clay	PNOR unless crystalline silica present (then silica PEL 0.05 mg/m ³)
Lime	CaO = 5 mg/m ³ ; otherwise PNOR
Magnesium Ammonium Phosphate	PNOR: 15 / 5 mg/m ³
Magnesium Oxide	15 mg/m ³ total dust / 5 mg/m ³ resp
Manganese Oxide	5 mg/m ³ CEILING
Manganese Sulfate	5 mg/m ³ CEILING
MCPP-P Dimethylamine Salt	PNOR: 15 / 5 mg/m ³
Monoammonium Phosphate	PNOR: 15 / 5 mg/m ³
N-(n-Butyl)thiophosphoric triamide	PNOR: 15 / 5 mg/m ³
N-methyl pyrrolidone	No federal OSHA PEL (Cal/OSHA = 1 ppm)
Potassium	PNOR unless specific compound
Potassium Chloride	PNOR: 15 / 5 mg/m ³
Potassium Magnesium Sulfate	PNOR: 15 / 5 mg/m ³
Propylene Glycol	No federal OSHA PEL (check SDS)
Silica Dioxide	If respirable crystalline silica: 0.05 mg/m ³ (TWA); otherwise PNOR
Sodium Calcium Borate	PNOR: 15 / 5 mg/m ³
Sodium Chloride	PNOR: 15 / 5 mg/m ³
Sodium Molybdate	PNOR: 15 / 5 mg/m ³ (check SDS for Mo-specific limits)
Sulfate of Potash	PNOR: 15 / 5 mg/m ³
Sulfate of Potash magnesia	PNOR: 15 / 5 mg/m ³
Urea Formaldehyde polymer	Formaldehyde monomer PEL: 0.75 ppm TWA; polymer dust: PNOR
Urea Granular	PNOR: 15 / 5 mg/m ³
Wolftrax DDP	PNOR: 15 / 5 mg/m ³ (check SDS)
Zinc Oxide	Fume: OSHA PEL listed; Dust: PNOR (15 / 5 mg/m ³)
Zinc Sulfate	PNOR: 15 / 5 mg/m ³

Section 9 Physical Properties

Appearance Heterogenous mixture Physical State Solid	Odor Earthy, Sulfur like Specific Gravity (SG) ~1.33-2.66
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Section 10 Stability and Reactivity

STABLE

Incompatibilities: None known. Not Applicable

Hazardous Decomposition: Not established. Not Applicable

Hazardous polymerization will not occur.

Section 11 Toxicological Information

Likely Routes of Exposure: Eye contact, skin contact, inhalation of dust, ingestion.

Acute Toxicity:

- Prodiamine: Low acute oral and dermal toxicity in animal studies.
- Fertilizer ingredients generally have low acute toxicity but may cause irritation if swallowed or inhaled in large amounts.

Skin Corrosion/Irritation: May cause mild skin irritation.

Eye Damage/Irritation: Dust may cause mechanical eye irritation (redness, tearing).

Respiratory Sensitization: Not expected. Dust may cause temporary respiratory irritation (coughing, throat irritation).

Skin Sensitization: Prodiamine has not shown significant sensitization effects in animal testing.

Carcinogenicity: Prodiamine is not classified as a carcinogen by OSHA, NTP, IARC, or EPA.

Reproductive/Developmental Effects: No evidence of significant effects at normal exposure levels.

Target Organ Effects: Prolonged overexposure to fertilizer dusts may affect respiratory tract.

Aspiration Hazard: Not applicable (solid granular product).

CAS Number	Description		Carcinogen Rating
16389-88-1	Dolomite Granules		
Dolomite granules: Limestone (Dolomite granules) is not listed on the NTP, IARC or OSHA lists of carcinogens. Crystalline silica, a naturally occurring component of limestone, is listed by IARC but not by NTP or OSHA. IARC has determined that there is sufficient evidence for carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. "Limited evidence" means that a causal relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded. NTP has proposed (1989) to list crystalline silica based on the IARC determination. The quantity of crystalline silica in limestone, being part of a naturally occurring mined material, vary based on where and when the material is mined. As such the exact percentage of crystalline silica in this product cannot be accurately calculated between individual batches of this product. In order to provide our end users with the most relevant safety information and err on the side of caution and in accordance with the GHS standards set forth for crystalline silica stating that any product containing more than 0.1% crystalline silica must be marked with a Carcinogen hazard classification this product bears this mark even in cases where it may not be strictly required			

Section 12 Ecological Information

Ecotoxicity:

- **Prodiamine:** Toxic to aquatic plants and algae; may affect aquatic invertebrates.
- Fertilizer components can contribute to nutrient enrichment (algal blooms, oxygen depletion) in surface waters.

Persistence and Degradability:

- Prodiamine is persistent in soil; degrades slowly, primarily through microbial activity.
- Fertilizer salts (e.g., nitrates, phosphates, potash) are water-soluble and readily available to plants, but can leach into groundwater.

Bioaccumulative Potential: Prodiamine has low to moderate potential for bioaccumulation.

Mobility in Soil:

- Prodiamine: Low mobility; tends to adsorb strongly to soil particles, reducing leaching potential.
- Fertilizer salts: High mobility in water; may leach or run off if overapplied.

Other Adverse Effects: Avoid release to surface waters to prevent ecological harm from both the herbicide and fertilizer nutrients.

Section 13 Disposal Considerations

Disposal Methods: If you cannot dispose of this product or its container according to the label directions, follow the rules set by your local waste authority. The guidance below applies only to the product in its original form. Once the product has been used or mixed with other materials, its classification may change. The person disposing of the waste is responsible for determining its hazards and making sure it is handled and disposed of in line with all local, regional, and national regulations.

Section 14 Transportation

UN Number: Not applicable

UN Proper Shipping Name: Not regulated

Transport Hazard Class(es): Not regulated

Packing Group: Not applicable

Environmental Hazards: Not classified as a marine pollutant

Special Precautions for User: Avoid creating dust during handling; prevent spillage to minimize environmental impact.

Transport in Bulk (per Annex II of MARPOL 73/78 and the IBC Code): Not applicable

Additional Information:

This product is a solid, non-flammable, non-toxic granular fertilizer.

No special transport requirements under DOT, IATA, or IMDG regulations apply.

Local or regional regulations may apply; consult applicable transport authorities.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15 Regulations

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Chronic Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313 .

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

United States TSCA Inventory (TSCA)

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 60063-43-41124

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, and for workplace labels of non-pesticide chemicals. Following is

the hazard information as required on the pesticide label:

CAUTION

Section 16 Other Information

Hazard Rating System NFPA

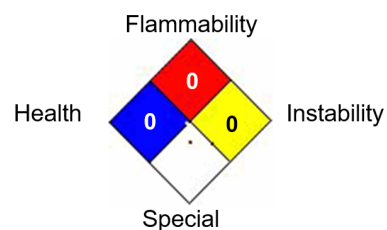
Health : 0 Fire : 0 Reactivity : 0

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="0"/>	0
FLAMMABILITY	<input type="text" value="0"/>	0
PHYSICAL HAZARD	<input type="text" value="0"/>	0
PERSONAL PROTECTION	<input type="text"/>	

HMIS & NFPA Hazard Rating
Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



The information herein is provided in good faith and believed to be accurate as of the effective date shown above . However, no warranty, express or implied, is given . Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped . Since conditions for use of the product are not under the control of the

manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.