

MATERIAL SAFETY DATA SHEET

Spring Valley
1891 Spring Valley Road
Jackson, WI 53037
262-677-2273

Approval Date: February 28, 2011
Supersedes: None

I. PRODUCT NAME: **25-0-5 50% Am-Sul, Mop** **Item #: 2044821**

II. HAZARDOUS INGREDIENTS

<u>Ingredient Name</u>	<u>Content</u>	<u>CAS Number</u>	<u>Exposure Limits</u>
Muriate of Potash	Varies	7447-40-7	10 mg/m3 as dust
Urea	Varies	57-13-6	10 mg/m3 as dust
Ammonium Sulfate	Varies	7783-20-2	10 mg/m3 as dust
Dolomite Granules	Varies	Mixture	10 mg/m3 as dust

III. PHYSICAL PROPERTIES

Physical Form: Granular
Color: Varies
Odor: Slightly earthy
pH: Neutral
Solubility in Water: Partial
Specific Gravity: 0.8 - 1.2
Bulk Density: 50 - 78 lbs / cu. ft.
Vapor Pressure: Not applicable.

IV. FIRE AND EXPLOSION DATA

Flash Point: Not applicable.
Flammable Limits:
 UEL Not applicable.
 LEL Not applicable.

Extinguishing Media: .

Special Fire Fighting Procedures: Protect eyes and skin from contact with smoke. Wear self contained breathing apparatus when fighting fires. Keep all nonessential personnel upwind from smoke. Contain runoff waters and consult with your local environmental agencies before disposal.

V. HUMAN HEALTH DATA

Routes of entry:

 Skin and eye.

Human effects and symptoms of exposure:

 May irritate open sores and wounds. May cause temporary eye irritation.

Acute effects of exposure:

 None known.

Chronic effects of exposure:

 None known.

Carcinogenicity:

 No carcinogenic components known.

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VI. EMERGENCY AND FIRST AID PROCEDURES

Contact your local Poison Control Center in case of accidental contact which causes or is expected to cause an adverse medical reaction.

First aid for eyes:..... Flush eyes with plenty of water for 15 minutes. Contact physician if irritation persists.
First aid for skin:..... Wash with soap and water. Contact physician if irritation persists.
First aid for inhalation: Remove to fresh air.
First aid for ingestion: Drink plenty of water.

VII. EMPLOYEE PROTECTION RECOMMENDATIONS

Eye protection:..... If granules may come in contact with eyes, wear eye protection.
Skin protection:..... Cover open sores.
Respiratory protection: None required.
Ventilation requirements:..... Use outdoors only.
Additional protective measures: None required.

VIII. REACTIVITY DATA

Stability:..... Stable
Hazardous polymerization:..... Does not occur.
Incompatibilities:..... None known.
Instability conditions:..... None known.
Decomposition products:..... Not established.

IX. SPILL AND LEAK PROCEDURES:

Cleanup procedures:..... Sweep spill, repackage in labeled container and reuse.
Waste disposal method:..... Reuse product if possible. May be placed in household waste.

X. SPECIAL PRECAUTIONS AND STORAGE DATA

Technical shipping name:..... Not regulated.
Proper shipping name:..... Not regulated.
Hazard Class or Division:..... Not regulated.

XI. OTHER REGULATORY INFORMATION

NFPA Ratings: Health 1
 Flammability 1
 Reactivity 0
 Other 0
0 = insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

XII. FEDERAL REGULATORY INFORMATION

OSHA Status:..... Components listed.
TSCA Status:..... This product is exempt from TSCA Regulation.
CERCLA Reportable Quantity:..... No components listed.
SARA Title III
 Section 302:..... No components listed.
 Section 311/312:..... No components listed.
 Section 313:..... No components listed.
RCRA Status:..... Not considered a hazardous waste under RCRA.

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XIII. TRANSPORTATION

Not regulated, see Section XI of the MSDS Data for Other Regulatory Information.

XIV. DISCLAIMER

Information contained in this Material Safety Data Sheet is accurate as of the date written. No implications are intended beyond information presented in this document.

25-0-5 50% Am-Sul, Mop

Item #: 2044821

25-0-5

SGN 200

GUARANTEED ANALYSIS Item Number: 2044821

Total Nitrogen (N)	25.00%
12.50% Urea Nitrogen	
12.50% Ammoniacal Nitrogen	
Soluble Potash (K2O)	5.00%
Sulfur (S)	14.28%
Derived From:	
Muriate of Potash, Urea, Ammonium Sulfate.	
Salt Index: 71.18 Bulk Density: 62.31	
Net Weight 50 lbs (22.70 kg)	
50 lbs. Covers 12,500 sq. ft	
(These rates equal 1 lb. nitrogen per 1,000 sq. ft.)	

NUTRIENT CALCULATIONS WITH SPREADER SETTINGS			
Product	Low Rate	Medium Rate	High Rate
25-0-5 SGN 200	2.0 lbs per 1,000 sq ft	3.0 lbs per 1,000 sq ft	4.0 lbs per 1,000 sq ft
Lbs Nutrients/ 1000 sq ft	N- 0.50 P- 0.00 K- 0.10	N- 0.75 P- 0.00 K- 0.15	N- 1.00 P- 0.00 K- 0.20
Rotary Spreader	Settings	Settings	Settings
Bigfoot	K	L	N
Earthway 2400	14	15	17
Scotts R8A	L	M	O
Lesco 00600	I	J	L
Spyker	5.25	5.5	6
Bulk Spreader	Settings	Settings	Settings
Lely W	4R	4T	5R
Vicon 402	24	27	36
Speed Applied: 6 mph			

Note: These Spreader Settings are approximate and can be influenced by other atmospheric conditions and contributing factors. It is impossible to be 100% accurate. It is wise to set your spreader to a low rate and then measure the coverage of only one pound of turf food. If you are under applying, increase the rate; if you are over applying, decrease the rate. If in doubt it is better to under-apply than to over-apply and use formulations with more controlled releases, especially during hot, dry conditions. Vogel Seed & Fertilizer Inc. makes no warranty as to the uniformity of coverage actually obtained from the settings listed.

General Information

This product is a highly versatile premium mini-sized fertilizer that is ideal for the nutrient demands of top quality turf management. The precise balance of nutrients promotes a superior, sustained color response that produces the visual appeal turf professionals desire.

How to Use *

For optimum performance, begin spring applications just before soil temperatures reach 50 degrees F. Although nitrogen can be applied at the rate of 1.0 lb per 1,000 sq. ft. every 8 weeks, it is also recommended that lighter, half-rate applications be made each month, especially during hot, dry periods. Continue scheduled feedings throughout the growing season until soil temperature retreats to below 50 degrees F. Late fall and dormant feedings are recommended after soil temperatures remain below 50 degrees F for several consecutive days and turf growth has slowed considerably.

Apply product evenly with a calibrated spreader. For best results, apply before rainfall or irrigate immediately after application.

*Southern turf grasses, including St. Augustine and hybrid Bermuda grasses may require higher levels of nitrogen for optimum performance.

**NEVER FERTILIZE WHEN THE GRASS IS MOIST
ALWAYS CLEAN OUT SPREADER AFTER EACH USE**

KEEP OUT OF REACH OF CHILDREN