

**MATERIAL SAFETY DATA SHEET**

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| <b>PRODUCT NAME:</b> | GREENYARD PROFESSIONAL FERTILIZER 11-52-0 MAP |
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| <b>SECTION I</b>  |   |
|---|---|
| MANUFACTURER'S NAME:<br>GROWMARK FS, LLC.<br>3150 STONEY POINT RD<br>EAST BERLIN, PA 17316 (717)-259-9573 | EMERGENCY TELEPHONE NUMBER CALL<br>DAY OR NIGHT 1-800-424-9300<br>TELEPHONE NUMBER FOR INFORMATION:<br>(888)-222-4405 |

| <b>SECTION II CHEMICAL INGREDIENTS / IDENTITY INFORMATION</b> |
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| <u>CHEMICAL COMPONENTS</u>     | <u>OSHA PEL</u>     | <u>ACGIH TLV</u>    | <u>OTHER LIMITS</u> | <u>CAS #</u> | <u>%</u> |
|--------------------------------|---------------------|---------------------|---------------------|--------------|----------|
| Monoammoniated Phosphate (MAP) | 15mg/M <sup>3</sup> | 10mg/M <sup>3</sup> |                     | 7722-76-1    |          |
|                                |                     |                     |                     |              |          |
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| <b>SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS</b> |
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|                     |         |                     |                        |
|---------------------|---------|---------------------|------------------------|
| BOILING POINT       | NA      | SPECIFIC GRAVITY    | >1                     |
| VAPOR PRESSURE      | NA      | MELTING POINT       | 132.7 <sup>0</sup> C   |
| VAPOR DENSITY       | NA      | EVAPORATION RATE    | NA                     |
| SOLUBILITY IN WATER | Soluble | APPEARANCE AND ODOR | Granular & mixed color |

| <b>SECTION IV FIRE AND EXPLOSION HAZARD DATA</b> |
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FLASH POINT (METHOD USED): NA

EXTINGUISHING MEDIA: FOAM & WATER

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus, to protect against the decomposition products of Urea and Sulfur Coated Urea which can be toxic.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid breathing vapors or dust.

| <b>SECTION V REACTIVITY DATA</b> |
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|          |   |                     |  |
|----------|---|---------------------|--|
| STABLE   | X | CONDITIONS TO AVOID | Decomposes when heated above melting point |
| UNSTABLE |   | CONDITIONS TO AVOID |  |

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid Contact with Strong Acids,  
Mildly Corrosive to Metals in Presence of Moisture

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: NDA

| <b>HAZARDOUS POLYMERIZATION:</b> |   |                     |    |
|----------------------------------|---|---------------------|----|
| MAY OCCUR                        |   | CONDITIONS TO AVOID |    |
| WILL NOT OCCUR                   | X | CONDITIONS TO AVOID | NA |

| <b>SECTION VI HEALTH HAZARD DATA</b> |
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ROUTES OF ENTRY: Inhalation, Eyes, Skin, and Ingestion

HEALTH HAZARDS:

SIGNS AND SYMPTOMS OF EXPOSURE: EYES: Dust and vapors can cause irritation and pain. SKIN: Can cause irritation.

INHALATION: Dust can cause sore throat, coughing, and shortness of breath. INGESTION: Can cause sore throat and abdominal pain.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NDA

EMERGENCY AND FIRST AID PROCEDURES: EYES & INGESTION: Flush immediately with plenty of water, seek medical

attention if necessary. SKIN: Remove contaminated clothing immediately and flush contaminated area with water. INHALATION: Move to fresh air and rest. Seek medical attention if necessary.

## SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up and reuse as product.

WASTE DISPOSAL METHOD: Sanitary Landfill. Dispose in compliance with local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in dry location, remote from acids.

OTHER PRECAUTIONS:

## SECTION VIII CONTROL MEASURES / PROCESS AREAS

RESPIRATORY PROTECTION (SPECIFY TYPE):

|             |               |   |
|-------------|---------------|---|
| VENTILATION | LOCAL EXHAUST | as necessary to maintain low dust levels    |
|             | MECHANICAL    | N A   |
|             | SPECIAL       | dust mask or respirator in dusty situations |

PROTECTIVE GLOVES: Gloves recommended EYE PROTECTION: None required

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Optional

WORK / HYGIENIC PRACTICES: Normally accepted practices.

## SECTION IX REGULATORY COMPLIANCE

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERLA Section 102):

| CHEMICAL NAMES | CAS# | RQ |
|----------------|------|----|
|                |      | NA |

THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304):

|                |       |      |
|----------------|-------|------|
| CHEMICAL NAME: | CAS#: | TPQ: |
|----------------|-------|------|

TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313):

|                |        |                        |
|----------------|--------|------------------------|
| CHEMICAL NAME: | CAS #: | % BY WEIGHT IN PRODUCT |
|----------------|--------|------------------------|

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312):

|                |       |
|----------------|-------|
| CHEMICAL NAME: | CAS#: |
|----------------|-------|

EPA HAZARD CLASSIFICATION CODE:

| ACUTE HAZARD | CHRONIC HAZARD | FIRE HAZARD | PRESSURE HAZARD | REACTIVE HAZARD | NOT APPLICABLE |
|--------------|----------------|-------------|-----------------|-----------------|----------------|
|              |                |             |                 |                 | X              |

HAZARD RATING: NFPA

|          |              |                |                   |
|----------|--------------|----------------|-------------------|
| _0_ FIRE | _0_ TOXICITY | _0_ REACTIVITY | _U_ CORROSIVENESS |
|----------|--------------|----------------|-------------------|

|                    |        |          |            |        |           |
|--------------------|--------|----------|------------|--------|-----------|
| HAZARD RATING CODE | 0 None | 1 Slight | 2 Moderate | 3 High | U Unknown |
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## SECTION X TRANSPORTATION INFORMATION

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Material Incidents. DOT P 5800.5

DOT IDENTIFICATION: RQ:

OSHA REQUIRED LABEL INFORMATION:

In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment. NA

NOTE: Product label will contain additional non-OSHA related information.

DATE: January 3, 2013 SUPERSEDES: ALL PREVIOUS

The information herein was given in good faith but no warranty, expressed or implied was made. Consult for further information.

NA = NOT APPLICABLE NDA = NO DATA AVAILABLE