

**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** GREENYARD PROFESSIONAL FERTILIZER 12-0-0 25% XCU .37% CAVALCADE

| <b>SECTION I</b>  |   |
|---|---|
| <b>MANUFACTURER'S NAME:</b><br>GROWMARK, FS LLC<br>3150 Stoney Point Rd<br>East Berlin PA 17316 (717)259-9573 | <b>EMERGENCY TELEPHONE NUMBER CALL DAY OR NIGHT 1-800-424-9300</b><br><br><b>TELEPHONE NUMBER FOR INFORMATION:</b><br>(888)222-4405 |

**SECTION II CHEMICAL INGREDIENTS / IDENTITY INFORMATION**

| <u>CHEMICAL COMPONENTS</u>        | <u>OSHA PEL</u>     | <u>ACGIH TLV</u>    | <u>OTHER LIMITS</u> | <u>CAS #</u> | <u>%</u> |
|-----------------------------------|---------------------|---------------------|---------------------|--------------|----------|
| Urea                              | 5mg/M <sup>3</sup>  | 10mg/M <sup>3</sup> |                     | 57-13-6      |          |
| Limestone                         | 15mg/M <sup>3</sup> | 10mg/M <sup>3</sup> |                     |              |          |
| Polymer Coated Sulfur Coated Urea |                     | 10mg/M <sup>3</sup> |                     | 57-13-6      |          |
| Clay                              | 5mg/M <sup>3</sup>  | 10mg/M <sup>3</sup> |                     | 1302-78-9    |          |
|                                   |                     |                     |                     |              |          |
|                                   |                     |                     |                     |              |          |
| Prodiamine                        |                     |                     |                     | 29091-21-2   | .37      |
|                                   |                     |                     |                     |              |          |

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

|                     |         |                     |                        |
|---------------------|---------|---------------------|------------------------|
| BOILING POINT       | NA      | SPECIFIC GRAVITY    | >1                     |
| VAPOR PRESSURE      | NA      | MELTING POINT       | 132.7 <sup>o</sup> C   |
| VAPOR DENSITY       | NA      | EVAPORATION RATE    | NA                     |
| SOLUBILITY IN WATER | Soluble | APPEARANCE AND ODOR | Granular & mixed color |

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

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.

**SECTION V REACTIVITY DATA**

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

| <u>HAZARDOUS POLYMERIZATION:</u> |   |                     |     |
|----------------------------------|---|---------------------|-----|
| MAY OCCUR                        |   | CONDITIONS TO AVOID |     |
| WILL NOT OCCUR                   | X | CONDITIONS TO AVOID | N A |

**SECTION VI HEALTH HAZARD DATA**

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

**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