MATERIAL SAFETY DATA SHEET

PRODUCT NAME: GREENYARD PROFESSIONAL FERTILIZER 20-16-12 83% UREAFORM

SECTION I

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER CALL

GROWMARK FS, LLC. DAY OR NIGHT 1-800-424-9300

3150 STONEY POINT RD TELEPHONE NUMBER FOR INFORMATION:

EAST BERLIN, PA 17316 (717)-259-9573 (888)-222-4405

SECTION II CHEMICAL INGREDIENTS / IDENTITY INFORMATION

CHEMICAL COMPONENTS	OSHA PEL	ACGIH TLV	OTHER	CAS#	<u>%</u>
	_	=	<u>LIMITS</u>		
UREA	15mg/M ³	10mg/M ³		57-13-6	
Sulfate of Potash	15mg/M ³	10mg/M ³			
Monoammonium Phosphate (MAP)	15mg/M ³	10mg/M ³		7722-76-1	
UREAFORM	_	_			
Limestone	10mg/M ³	5mg/M ³		1317-65-3	

SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT	NA	SPECIFIC GRAVITY	>1
VAPOR PRESSURE	NA	MELTING POINT	132.7 ⁰ 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	Χ	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

HAZARDOUS POLYMER	RIZATIO	DN:	
MAY OCCUR		CONDITIONS TO AVOID	
WILL NOT OCCUR	Χ	CONDITIONS TO AVOID	NA

SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, Eyes, Skin, and Ingestion

HEALTH HAZARDS:

SIGNS AND SYMPTOMS OF EXPOSURE: <u>EYES:</u> Dust and vapors can cause irritation and pain. <u>SKIN:</u> Can cause irritation. <u>INHALATION:</u> Dust can cause sore throat, coughing, and shortness of breath. <u>INGESTION:</u> Can cause sore throat and abdominal pain.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NDA

EMERGENCY AND FIRST AID PROCEDURES: <u>EYES & INGESTION</u>: Flush immediately with plenty of water, seek medical attention if necessary. <u>SKIN</u>: Remove contaminated clothing immediately and flush contaminated area with water. <u>INHALATION</u>: 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	NA
	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 C	LASSIFICATION (CODE:			
ACUTE	CHRONIC	FIRE	PRESSURE	REACTIVE	NOT
HAZARD	HAZARD	HAZARD	HAZARD	HAZARD	APPLICABLE
					Х

HAZARD RATII	NG: NFPA	
0FIRE	0_TOXICITY	0REACTIVITYUCORROSIVENESS

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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 28, 2002 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