

MATERIAL SAFETY DATA SHEET

24-03-12/1Fe, 77% PCSCU

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

SECTION I: IDENTIFICATION OF PRODUCT

MANUFACTURED BY:
Mears Fertilizer, Inc.
P.O. Box 1271
El Dorado, KS 67042

EMERGENCY TELEPHONE NO.:
CHEMTREC (800) 424-9300 (24 Hours)

BRAND NAME: **THRIVE Advantage**
TRADE NAME AND SYNONYMS: **24-03-12/1Fe, 77% PCSCU
NPK Fertilizer Blend, Mini**
CHEMICAL NAME AND SYNONYMS: Inorganic/Organic Chemical
Fertilizer Mixture
PCSCU stands for Polymer Coated Sulfur Coated Urea.

SECTION II: IDENTIFICATION OF INGREDIENTS

(Note: See product tag or label for specific ingredients.)

N-P-K (NITROGEN - PHOSPHOROUS-POTASSIUM)
MIXED DRY BLENDED FERTILIZERS - No hazardous ingredient exceeds
1% of total mixture.

Typical Composition:	24.00% - Total Nitrogen as N
	3.00% - Total Phosphate as P ₂ O ₅
	12.00% - Total Potassium as K ₂ O
TLV - 10 mg/m ³ nuisance dust	4.27% - Total Calcium
	6.80% - Total Sulfur
	1.00% - Total Iron
	48.93% - Total Inert Ingredients

SECTION III: HEALTH HAZARD INFORMATION

This blended dry fertilizer is a mixture of urea, polymer coated sulfur coated urea, ammoniated phosphate, sulfate of potash, iron sucrate and calcitic limestone. A review of the ingredient salts indicates that ingestion may cause diarrhea, purging, and flatulence. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected breathing of fertilizer dust. Product users should avoid prolonged or repeated skin contact, and they should use eye protection when required by conditions of use. Product users should wash thoroughly after using or handling these fertilizers. Since children could receive toxic ingestive doses of fertilizers, these products should be stored in a secure place where children cannot get at them.

EMERGENCY AND FIRST AID PROCEDURES:

Call a physician immediately in all cases of suspected poisoning

Ingestion: Dilute with water or milk. If necessary, induce vomiting only when victim is conscious.
Inhalation: Remove to fresh air. If not breathing give artificial respiration.
Skin: Wash from skin with soap and water.
Eyes: Flush with running water for at least 15 minutes until irritation subsides.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known. Pre-existing respiratory conditions may be aggravated by exposure to dust.

POTENTIAL CARCINOGEN STATUS (Source of Information - Registry of Toxic Effects of Chemical Substances):

None Listed.

SECTION IV: PHYSICAL DATA

Bulk Density: 57.5 lbs/cf
Solubility-Water: Appreciable
Appearance/Odor: Multi-colored granular powders with fertilizer-like odors

SECTION V: FIRE, EXPLOSION AND REACTIVITY DATA

FLASH POINT (Specify Method -°C): Not Flammable
FLAMMABLE LIMITS (Percent by Volume): None established.
FIRE EXTINGUISHING MEDIA: Determined by surrounding fire. Not considered combustible.
SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment and self-contained breathing apparatus.

SECTION V: FIRE, EXPLOSION AND REACTIVITY cont...

UNUSUAL FIRE AND EXPLOSION HAZARDS: Urea may decompose in a fire situation and release cyanuric acid, ammonia, hydrogen cyanide, oxides of nitrogen, and irritating particulates. Sulfur-containing components may release oxides of sulfur.

NFPA HAZARD RATING	0 Least		
	1 Slight		1 Health
	2 Moderate		0 Flammability
	3 High		0 Reactivity
	4 Severe		

SECTION VI: SPECIAL PROTECTION INFORMATION

Avoid breathing fertilizer dusts. Avoid prolonged or repeated skin contact. Avoid eye contact with fertilizers. Use a NIOSH approved particulate respirator if respirable dust generation occurs or is anticipated during product use. Use other protective equipment (goggles, gloves, etc.) as required by conditions of product use. Wash thoroughly after handling fertilizers or other chemicals.

SECTION VII: CAUTIONARY STATEMENTS FOR PERSONS

HANDLING THIS MATERIAL

CAUTION - May be harmful if swallowed in quantity. Fertilizer dusts may irritate the eyes and respiratory system. Prolonged product contact may irritate sensitive skin. Wash thoroughly after handling. **Keep fertilizer out of reach of children.**

Note: These products are fertilizers. Do not eat them and avoid breathing their dusts.

SECTION VIII: MATERIAL STORAGE INFORMATION

Store these products in a cool, dry place, away from sources of high heat. Protect bags or other containers from damage. Keep bags or other containers closed when not in use.

SECTION IX: SPILL, LEAK AND DISPOSAL PROCEDURES

Notify management of any fertilizer spills. Fertilizer spills should be swept up and/or be shoveled into closed containers for recovery and use or disposal.

DISPOSAL: Recover spills for reuse, or place recovered material in a state approved landfill or incinerator. Follow Federal, state and local regulations for disposal.

SECTION X: REACTIVITY INFORMATION

STABILITY: Stable
CONDITIONS TO AVOID: Excessive heat; moisture
INCOMPATIBILITY (Avoid contact with): Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: Urea may decompose to release cyanuric acid, ammonia, HCN, NO
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None known

SECTION XI: REGULATORY INFORMATION

SARA TITLE III HAZARD CATEGORY:

IMMEDIATE	<u>N</u>	FIRE	<u>N</u>	SUDDEN RELEASE	
DELAYED	<u>N</u>	REACTIVE	<u>N</u>	PRESSURE	<u>N</u>

SUBSTANCES REGULATED UNDER SARA, TITLE III, SEC. 313:
None Listed.

DATE ISSUED: 01/12/12

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.