

# MATERIAL SAFETY DATA SHEET

PRODUCT ID 10-0-5 (25% SCU) 50% PhysioCal

COMMON NAME (s): Granular Fertilizer, Mixed Fertilizer, N-P-K Product  
SHIPPING NAME: Fertilizer Compound (Manufactured Fertilizer), NOI, Dry

## SECTION 1-MANUFACTURER INFORMATION

MANUFACTURED FOR:

SynaTek

261 Schoolhouse Road

Suite 4

Souderton, PA 18964-2416

PHONE: 888-408-5433

EMERGENCY TELEPHONE:

CHEMTREC: 800-424-9300

MSDS ISSUE DATE: 10/1/2004

REVISED:

3/31/2010

## SECTION 2-HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION MIXTURE: YES

Hazardous Components/CAS#	OSHA Pel	ACGIH TLV	OTHER LIMIT
NONE	NONE	NONE	NONE

## SECTION 3-PHYSICAL / CHEMICAL CHARACTERISTICS

DENSITY: 40-70 LB./ FT. 3

BOILING POINT: N/A Dry Material

EVAPORATION RATE: N/A

MELTING POINT: Partially decomposes at 212°F

SOLUBILITY IN WATER: 20-60% of product is soluble

REACTIVITY IN WATER: NONE

APPEARANCE & ODOR: Multi-color granules and mild aromatic odor.

SPECIFIC GRAVITY: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

## SECTION 4-FIRE AND EXPLOSION DATA

FLASH POINT: none

FLAMMABLE LIMITS: none

EXTINGUISHING MEDIA: Water, Foam, Carbon Dioxide or Dry Chemicals

SPECIAL FIRE FIGHTING PROCEDURES: May emit noxious and toxic fumes when heated to decomposition. Self-contained breathing apparatus should be used. This information is taken from sources or based upon data believed to be reliable; however, SynaTek makes no warranty as to the absolute corrections or sufficiency of the foregoing or that additional or other measures may not be required under particular conditions.

UNUSUAL FIRE AND EXPLOSION DATA: none

AUTO IGNITION: N/A

## SECTION 5-REACTIVITY DATA

STABILITY: Stable [x] Unstable []

CONDITIONS TO AVOID: Do not store in direct sunlight or at temperatures above 120°F.  
INCOMPATIBILITY: Generally none. Water damages product and may contribute to the release of ammonia vapors  
HAZARDOUS POLYMERIZATION: Will not occur.

## SECTION 6-HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation [x] Skin [] Ingestion [x]

HEALTH HAZARD: ACUTE; May cause slight irritation of eyes and skin. May cause rash or irritation particularly with moist skin. Potassium Chloride is an eye irritant. Redness, possible abrasion may occur. High concentration of dust may cause nasal or lung irritation. Large, ingested quantities may produce gastrointestinal irritation and vomiting.

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P.: No I.A.R.C. Monographs: No OSHA Regulated: No

SIGNS AND SYMPTOMS OF EXPOSURE: N/A

ODOR THRESHOLD: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Ingestion can cause stomach discomfort.

LOW ORAL TOXICITY [LD 50 (rat) Approximately 8100 mg / kg as a solid]

EMERGENCY FIRST AID PROCEDURES:

- 1) INHALATION Remove source(s) of contamination, and move victim to fresh air. Give Oxygen if needed. Commence artificial respiration if victim is not breathing. If victim has no pulse, begin CPR. Get medical attention immediately.
- 2) EYE CONTAMINATION Immediately flush the contaminated eye(s) with lukewarm water for 20 minutes, holding the eyelids open. Obtain medical attention immediately if irritation persists.
- 3) SKIN Remove all contaminated clothing and flush affected body area with large amounts of warm water for 15-20 minutes. Wash thoroughly with soap and water. If irritation persists, seek medical attention.
- 4) INGESTION Rinse mouth immediately. Have victim drink 10 ounces of water to dilute the material in the stomach. DO NOT INDUCE VOMITING; aspiration into the lungs can cause serious damage. Never give victim anything by mouth (orally) if victim is losing consciousness or convulsing. OBTAIN IMMEDIATE MEDICAL ATTENTION.

## SECTION 7-SARA TITLE III INFORMATION

### NOTIFICATION

HAZARDOUS COMPONENTS	FORMULA	Cas. No.	% By Weight	OSHA (PEL)	ACGIH (TLV)
Urea	N2H4CO	57-13-6	0-75	NE	NE
Diammonium Phosphate	N2H9P04	7783-28-0	0-40	50ppm(NH#3)	25ppm
Potassium Chloride	KCL	7747-40-7	0-70	NE	NE
Limestone	CaC03	1317-65-3	0-50	NE	NE
Dolomitic Limestone	CaC03=MgC03	16389-88-1	0-40	NE	NE
Ammonium Sulfate	N2H8S04	7783-20-2	0-75	50ppm(NH#3)	25ppm
Potassium Sulfate	K2S04	7778-80-5	0-20	NE	NE
Super Phosphate	CaH4P208	7758-23-8	0-10	NE	NE
Corncocks (Pulverized)		NE	0-60	NE	NE
Calcium Lignosulfonate		68131-31-7	0-01	NE	NE
Mineral Oil		NE	0-01	NE	NE
Sulfur	S	7704-34-9	0-02	NE	NE
Conditioners, Impurities		NE	0-01	NE	NE
Sulfur Coated Urea	NA	NE	0	NE	NE
Urea Formaldehyse	NA	9011-05-6	0	NE	NE
Nutralene	NA	NE	0	NE	NE
Granulite	Heat-Dried Biosolids	NONE		NE	NE
Composted Biosolid	Proprietary	NE		NE	NE
UFLEXX					
Urea	N2H4CO	57-13-6	>95	NE	NE
Agrotain	N-(n-butyl) thophosphoric triamide	94317-64-3	Proprietary	NE	NE
Dicyandiamide	Dicyandiamide	461-58-5	Proprietary	NE	NE

\*NE – Non Established

#### The Following Dust Limits Apply

Class	OSHA-PEL	SCGIH-TLV
Total Dust (In air)	15mg /m3	10mg / m3
Respirable Dust (In air)	5mg / m3	5mg / m3

## SECTION 8- SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry location. Do not store near food or feed. Keep out of reach of children and pets.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Major spills should be diked or dammed to prevent material travel; cover storm drains or prevent access to waterways. Sweep, scoop, or pick up spilled material and containerize. Collected waste may be transferred to a closed container and sent to an approved waste disposal facility.

**WASTE DISPOSAL METHOD:** Disposal must be made in accordance with federal, state and local regulations for non-toxic, non-hazardous waste. Consult Federal, State, and local regulations for more information.

## **SECTION 9-SPECIAL PROTECTION & CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Approved (NIOSH) dust respirator.

**VENTILATION:** Local exhaust ventilation should be used to control worker exposure to below recommended Permissible Levels (PEL).

**PROTECTIVE GLOVES:** Normal work or rubber gloves.

**EYE PROTECTION:** Safety glasses or goggles.

**OTHER PROTECTIVE CLOTHING / EQUIPMENT:** Long sleeve shirt, appropriate work pants (no shorts), approved work or safety boots should be worn during handling and application of material. Review state pesticide regulations regarding fertilizer application and clothing requirements for additional information.

**WORK AND HYGENIC PRACTICES:** GLOVES AND SAFETY GOGGLES RECOMMENDED. Keep clothing, boots, and gloves dry, washed and clean.

## **SECTION 10-D.O.T. TRANSPORTATION REQUIREMENTS**

**D.O.T. CLASSIFICATION:** N/A  
**REPORTABLE QUANTITY:** N/A  
**U.N. # / N.A. #: N/A**

**D.O.T. LABEL REQUIREMENTS:** N/A  
**D.O.T. PROPER SHIPPING NAME:** N/A  
**S.T.C.C. NUMBER:** N/A

**NOT REGULATED BY D.O.T. PER 49 CFR 172.101**

## **SECTION 11- REFERENCES**

### **PERMISSIBLE CONCENTRATION REFERENCES:**

OSHA Regulations for Airborne Contaminants 29 CFR 1910.1000: ACGIH threshold limit values for chemical substance.

### **HAZARD INFORMATION REFERENCE:**

Documentation of the Threshold limit Values; Fifth edition ACGIH

Chemical Condensed Dictionary, Tenth Edition, 1981

NFPA Fire Protection Guide on Hazardous Materials, Eighth Edition 1984

### **PERMISSIBLE CONCENTRATION REFERENCE:**

**NO TLV, TWA, OR BIOLOGICAL ACTION LEVEL ESTABLISHED.**

## **DISCLAIMER**

The data presented herein is believed accurate for the specific material, but is in no way guaranteed. The information herein may not be applicable if this specific material is used in combination with other material(s). SynaTek assumes no liability and makes no warranty in connection with any use for this specific material. Other safety measures in addition to those indicated may be required. The user, therefore, assumes full responsibility, both as to persons and to property, for the safe use of these materials.

Information listed herein, such as Hazards, First Aid, etc., is abbreviated. For more detailed information, contact the manufacturer at our address, or review the information contained in the reference section listed above.

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