

MATERIAL SAFETY DATA SHEET

PRODUCT I.D.-Turf Fertilizer

19-0-5 100% Urea

CHEMICAL NAME:	CHEMICAL FORMULA:	CAS #
UREA	N ₂ H ₄ CO	57-13-6
POTASSIUM CHLORIDE	KCl	7447-40-7

SECTION 1-MANUFACTURER INFORMATION

MANUFACTURER'S NAME & ADDRESS:

EMERGENCY TELEPHONE:

SynaTek
261 Schoolhouse Road
Suite 4
Souderton, Pa. 18964

CHEMTREC: 800-424-9300

PHONE: 888-408-5433

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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

BOILING POINT: 266°F SPECIFIC GRAVITY: 1.315 @ 80°F
EVAPORATION RATE: N/A VAPOR PRESSURE: N/A
MELTING POINT: -23°F VAPOR DENSITY: N/A
SOLUBILITY IN WATER: MISCIBLE IN WATER (68°F/34.7g/l)
REACTIVITY IN WATER: NONE
APPEARANCE & ODOR: WHITE, TRANSLUCENT. COLORLESS, ODORLESS.

SECTION 4-FIRE AND EXPLOSION DATA

FLASH POINT: none FLAMMABLE LIMITS: none
EXTINGUISHING MEDIA: Dry Chemical, CO₂, water, and regular foam
SPECIAL FIRE FIGHTING PROCEDURES: Not flammable and does not support combustion. If involved in fire, use extinguishing media suitable for surrounding fire.
UNUSUAL FIRE AND EXPLOSION DATA: none
AUTO IGNITION: N/A

SECTION 5-REACTIVITY DATA

STABILITY: Stable [x] Unstable [] CONDITIONS TO AVOID: none
INCOMPATIBILITY: Bromine Trifluoride; Potassium Permanganate; Sulphuric Acid
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of potassium; ionic chlorine release from potash decomposition.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: none

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

UREA	CAS # 57-13-6	% BY WEIGHT: 41.30%
POTASSIUM CHLORIDE	CAS # 7447-40-7	% BY WEIGHT: 3.23%

SECTION 8- SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Heating products may cause vaporization of organic additives; Avoid contact with eyes; Store in a dry place, moisture causes caking.

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: Not required.

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). Moyer & Son 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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