

**SECTION 1: PRODUCT AND COMPANY INFORMATION**

**Product Name(s)** SynaTek® Liquid Turf Fertilizers including TurFlo®, ArborFlo®, FertAminos®, RootFlo®, and Fertimate™ Fertigation Liquids.  
**Uses and Restrictions** Fertilizer / For commercial or professional use only.  
**Manufacturer** SynaTek, LP, 737 Hagey Rd – Unit A, Souderton, PA 18964  
**Telephone** (888) 408-5433 **Web Site** [www.synateksolutions.com](http://www.synateksolutions.com)  
**Emergency Contact / Number** CHEMTREC 1-800-424-9300

**SECTION 2: HAZARD IDENTIFICATION**



**Hazards**  
 Skin Corrosion/Irritation Category 2 – Causes skin irritation  
 Eye Damage/Irritation Category 2B – Causes eye irritation  
 Specific target organ toxicity, single occurrence Category 3 – May cause respiratory irritation

**Signal Word** WARNING

**Precautionary Statements**

Avoid breathing dust. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. Call a POISON CENTER or a doctor/physician if you feel unwell.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.  
 If eye irritation persists get medical advice/attention.  
 IF ON SKIN: Wash with soap and water.  
 If skin irritation occurs: get medical advice/attention.  
 Take off contaminated clothing and wash before reuse. Store in a well ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS Number	Percentage
Diammonium phosphate	7783-28-0	0 – 60
Potassium chloride	7747-40-7	0 – 35
Non-hazardous ingredients	Mixture	balance

**SECTION 4: FIRST AID MEASURES**

**Most Important Symptoms / Effects**

Working around the product for long periods or vapors from the product may cause slight irritation to the eyes or skin. Direct contact may cause a skin rash or irritation; direct eye contact may cause blurred vision or eye irritation. Inhalation can cause respiratory irritation, dizziness or nausea. Ingesting large amounts may cause gastrointestinal irritation, nausea, vomiting or diarrhea.

**Indication of Immediate Medical Attention and Special Treatment, if Necessary**

Persistent eye or skin irritation, ingestion, difficulty in breathing, unconsciousness or respiratory distress.

**Eye Contact**

Flush eyes immediately with water for at least 15 minutes. Seek immediate medical advice or attention if irritation persists.

**Skin Contact**

Wash exposed areas promptly with water and mild soap. Remove contaminated clothing immediately and launder before reuse. Seek medical advice or attention if irritation occurs and persists.

**Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth if conscious. Drink one to two glasses or more of water to dilute swallowed material. Do not induce vomiting due to danger of aspiration into the lungs. Obtain medical advice or contact your local Poison Control Center 1-800-222-1222.

**Inhalation**

Move to fresh air. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical attention.

**SECTION 5: FIREFIGHTING MEASURES**

**Suitable Extinguishing Media**

Product does not burn. Use water spray, dry chemical, foam or CO<sub>2</sub> as applicable for burning materials. Use a water spray to cool fire-exposed containers, structures and to protect personnel.

**Special Firefighting Procedures**

May produce noxious or toxic fumes, gases, and vapors in an intense fire. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full-face mask and full protective equipment. Do not enter confined fire space without full equipment and a positive pressure NIOSH approved self-contained breathing apparatus.

**Unusual Firefighting Hazards**

None known

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Isolate release area and keep unnecessary people away. See Section 8 for personal protection gear.

**Methods for Cleaning Up**

Clean up spills observing precautions in Section 8. Prevent material from entering storm drains or waterways. Small amounts may be flushed with water; large amounts should be collected for later use or disposal.

**SECTION 7: HANDLING AND STORAGE**

**Handling**

Follow accepted work and hygiene practices for neutral liquid materials. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation. Empty containers may contain residue.

**Storage**

Keep containers in a dry, cool, well-ventilated area. Keep away from incompatible materials, foodstuffs, children or pets.

**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

**Exposure Limits**

Component Name	ACGIH TLV-TWA	OSHA PEL-TWA
Diammonium phosphate	25 ppm	50 ppm

**Engineering Controls**

Use appropriate ventilation to maintain good air quality. Have eye wash stations and safety showers readily available.

**Eye and Face Protection**

Wear safety glasses with side-shields conforming to ANSI Z-87; use face shield if splashing is possible.

**Skin Protection**

Wear protective gloves to avoid repeated or prolonged contact. Additional body garments should be used based upon the task being performed.

**Respiratory Protection**

Not normally required. Use a properly fitted NIOSH respirator in areas where the exposure is unknown or above the OSHA PEL or ACGIH TLV.

**General Hygiene**

Wash thoroughly with soap and water after task or shift, when using the restroom or before eating.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical State	Liquid, color varies	Flash Point	Not Applicable
Specific Gravity (Water=1)	1.1 – 1.3	Upper Flammability Limits	Not Applicable
Evaporation Rate	Not Determined	Lower Flammability Limits	Not Applicable
pH	5.5 – 9.5	Auto-ignition Temperature	Not Applicable
Solubility in Water	Complete	Decomposition Temperature	Not Determined
Odor	Characteristic	Vapor Pressure	Not Determined
Odor Threshold	Not Determined	Vapor Density (Air=1)	Not Determined
Melting/Freezing Point	Not Determined	Partition Coefficient (n-octanol/water)	Not Determined
Boiling Range	Not Determined	Viscosity	Not Determined
Initial Boiling Point	212 °F	Critical Temperature	Not Applicable

Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

Does not react

**Chemical Stability**

Stable under normal conditions of storage and handling.

**Possibility of Hazardous Reactions**

Will not occur

**Conditions to Avoid**

Storage in direct sunlight or temperatures above 120 °F.

**Incompatible Materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Ammonia, nitrogen oxides, formic acid and formaldehyde

**SECTION 11: TOXICOLOGICAL INFORMATION**

Specific toxicity tests have not been conducted on this mixture. In accordance with OSHA's Hazard Communication Standard 1910.1200, this mixture is assumed to have the same health hazards as its significant components.

**Acute Effects**

May cause slight irritation to the eyes and skin. Ingestion may cause gastrointestinal irritation and vomiting. Irritating to the respiratory system.

**Target Organ Effects**

None known

**Chronic Effects**

Repeated or long term exposure may aggravate acute symptoms.

**Carcinogenicity**

This product does not contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Not Determined

**Mobility** Not Determined

**Degradability** Not Determined

**Bioaccumulation** Not Determined

**SECTION 13: DISPOSAL CONSIDERATION**

Dispose of this product in compliance with all applicable federal, state and local regulations. Empty containers may contain residues.

**SECTION 14: TRANSPORT INFORMATION**

Proper Shipping Name      Not Regulated

**SECTION 15: REGULATORY INFORMATION**

**TSCA Status**

All components are listed in the TSCA inventory

**SARA 311/312 Reporting Categories**

None

**SARA 313 Reportable Ingredients**

None

**SECTION 16: OTHER INFORMATION**

Department Issuing SDS      Health and Safety

**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.