



**THE ANDERSONS  
MATERIAL SAFETY DATA SHEET**

PRODUCT CODE: APT218AL5

DATE PREPARED: 05/09/05

**SECTION I: PRODUCT IDENTITY**

PRODUCT NAME: The Andersons Professional Turf Products Fertilizer 21-0-7 with Allectus Insecticide

MFR INFO: The Andersons Lawn Products  
PO Box 119  
Maumee, Ohio 43537

FOR EMERGENCY: (800) 757-8951  
FOR INFORMATION: (419) 891-2957

CURRENT AS OF: 5/9/05

**SECTION II: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
Potash (CAS # 7447-40-7)	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Urea (CAS # 57-13-6)	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Limestone (CAS # 1317-65-3)	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Clay (CAS # Not listed)	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Sulfur coated urea (CAS # Not listed)		
Bifenthrin (CAS # 82657-04-3)		
Imidicloprid (CAS # 138261-41-3)		

**SECTION III: PHYSICAL DATA**

BOILING POINT: NA      EVAPORATION RATE: NA      pH: NA  
 VAPOR DENSITY: NA      VAPOR PRESSURE: NA  
 MELTING POINT: NA      SPECIFIC GRAVITY: NA  
 SOLUBILITY (IN WATER): Partially soluble  
 APPEARANCE AND ODOR: Multi-colored granular mix, with slight ammonia / sulfur odor

**SECTION IV: FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: Not flammable      FLAMMABLE LIMITS: NA  
 EXTINGUISHING MEDIA: Use media suitable for surrounding fire; foam is preferred  
 SPECIAL FIRE FIGHTING PROCEDURES:  
     Wear full protective clothing and positive-pressure self-contained breathing apparatus  
 UNUSUAL FIRE AND EXPLOSION HAZARDS:  
     Decomposition products may be toxic; sulfur will burn when separated from molten urea

**SECTION V: REACTIVITY DATA**

CONDITIONS TO AVOID: Excessive heat (greater than 200°F)  
 INCOMPATIBILITY: Strong oxidizers, acids, hypochlorites  
 HAZARDOUS DECOMPOSITION PRODUCTS: HCN, NO<sub>x</sub>, CO<sub>x</sub>, NH<sub>3</sub>, cyanuric acid, SO<sub>x</sub>, HCl, HF  
 Product is stable and hazardous polymerization will not occur.

**SECTION VI: PERSONAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: NIOSH approved pesticide respirator recommended, if required  
 EYE PROTECTION: Safety glasses with side shields, goggles, or faceshield are recommended  
 SKIN PROTECTION: Long sleeves, impermeable (rubber) gloves recommended  
 VENTILATION: Local exhaust ventilation recommended; applicators should stand upwind when handling

**SECTION VII: HEALTH HAZARD DATA**

**HEALTH HAZARDS:** May be irritating to the nose and respiratory tract, and may cause sore throat, coughing and shortness of breath. Skin irritation may result from repeated or prolonged exposure. May also be irritating to the eyes, causing redness and watering. Prolonged eye exposure may cause conjunctivitis and corneal damage. Ingestion may result in nausea, vomiting, nose bleeds, tremors, and convulsions. The bifenthrin active ingredient is moderately toxic by the oral route and slightly toxic by the dermal route. Ingestion of large amounts of sulfur may lead to hydrogen sulfide poisoning due to bacterial conversion of sulfur in the colon.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing respiratory, skin, or eye conditions; pre-existing liver conditions

**FIRST AID PROCEDURES:**

**IF SWALLOWED:** If victim is alert and not convulsing, give one glass of water to dilute material, but **DO NOT** induce vomiting. Seek immediate medical attention.

**IF INHALED:** Move victim to fresh air. Seek medical attention if irritation persists.

**IF IN THE EYES:** Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists.

**IF ON SKIN:** Shower/wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.

**CARCINOGENICITY:** None of the ingredients are known / listed carcinogens. However, the product may contain trace amounts of crystalline silica, which is listed by IARC as a potential human carcinogen.

**SECTION VIII: PRECAUTIONS FOR SAFE HANDLING AND USE**

**SPILL / RELEASE PROCEDURES:** Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly. Bifenthrin is highly toxic to fish and aquatic organisms. Keep out of water bodies.

**WASTE DISPOSAL METHOD:** Read product label before disposing of product and container. Dispose of in accordance with all federal, state, and local regulations. Reuse recovered product where possible.

**HANDLING / STORING PRECAUTIONS:** Read product label before handling. Use only as directed on the label. Keep out of the reach of children. Store in a cool, dry, well ventilated area. Do not store near oxidizers.

**SECTION IX: ADDITIONAL INFORMATION**

ACTIVE INGREDIENT LEVEL (%): 0.125 as imidacloprid  
0.100 as bifenthrin

SARA INFORMATION:

SECTION 302: Not an "extremely hazardous substance"

SECTION 313: Bifenthrin listed

CERCLA RQ: Not listed

RCRA LISTING: Not listed

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MSDS ID NO: 5127

PREPARED BY: SS

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