



**THE ANDERSONS  
MATERIAL SAFETY DATA SHEET**

PRODUCT CODE: APT156MH5

DATE PREPARED: 05/12/03

**SECTION I: PRODUCT IDENTITY**

PRODUCT NAME: The Andersons Professional Turf Products 15-0-5 with Mach II

MFR INFO: The Andersons Lawn Products  
P.O. Box 119  
Maumee, Ohio 43537

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

CURRENT AS OF: 5/12/03

**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>
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>
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>
Sulfur coated urea (CAS # Not listed)		
Corn cob fractions (CAS # Not listed)	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup>
Mach II (CAS # Not listed)		

**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

**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, caustics, acids, hypochlorites

**HAZARDOUS DECOMPOSITION PRODUCTS:** HCN, NO<sub>x</sub>, CO<sub>x</sub>, NH<sub>3</sub>, cyanuric acid, HCl, isobutylene

Product is stable and hazardous polymerization will not occur.

#### **SECTION VI: PERSONAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** NIOSH approved pesticide respirator, if required

**EYE PROTECTION:** Safety glasses with sideshields, goggles, or faceshield are recommended

**SKIN PROTECTION:** Long sleeves, chemical-resistant gloves recommended

**VENTILATION:** Local exhaust ventilation recommended

#### **SECTION VII: HEALTH HAZARD DATA**

**HEALTH HAZARDS:** May be irritating to the nose, throat, and respiratory tract, and may cause sore throat, coughing, and shortness of breath. Skin irritation may result; repeated or prolonged skin exposures may result in dermatitis or burns. May also be irritating to the eyes, causing redness and watering. Prolonged eye exposure may cause conjunctivitis and corneal damage. Ingestion may result in sore throat, abdominal pain, nausea, and diarrhea. 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

**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:** 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, product may contain trace amounts of crystalline silica. Crystalline silica 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.

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

**HANDLING/STORING PRECAUTIONS:** Store in a cool, dry, well ventilated area. Do not store above 120° F. Use only as directed on the label. Keep out of the reach of children.

**SECTION IX: ADDITIONAL INFORMATION**

**ACTIVE INGREDIENT LEVEL (%):** 1.33 as Mach II manufacturing use concentrate

**SARA INFORMATION:**

**SECTION 302:** Not an "extremely hazardous substance"

**SECTION 313:** Not listed

**CERCLA RQ:** Not listed

**RCRA LISTING:** Not listed

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**MSDS ID NO:** 5094

**PREPARED BY:** SS

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