



**THE ANDERSONS
MATERIAL SAFETY DATA SHEET**

PRODUCT CODE: APT164SR4

DATE PREPARED: 02/03/06

SECTION I: PRODUCT IDENTITY

PRODUCT NAME: The Andersons Professional Turf Products Fertilizer 16-0-9 with Surge Herbicide

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: 2/3/06

SECTION II: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
Potash (CAS # 7447-40-7)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Urea (CAS # 57-13-6)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Limestone (CAS # 1317-65-3)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Sulfur coated urea (CAS # Not listed)		
Corncob fractions (CAS # Not listed)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Surge (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 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, HCl, NO_x, CO_x, NH₃, cyanuric acid, organochlorides, SO_x

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 (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, throat, and respiratory tract, and may cause sore throat, coughing, dizziness, and shortness of breath, as well as central nervous system depression in severe overexposures. Skin irritation may result; repeated or prolonged skin exposures may result in dermatitis. 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. Repeated or prolonged exposure to the active ingredients may affect the skin, liver, kidneys, muscular, or gastrointestinal systems.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye, skin, or respiratory 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 inorganic fluorides and crystalline silica. Fluorides have been suggested as a reproductive hazard and a carcinogen. Crystalline silica is listed by IARC as a potential human carcinogen. IARC lists the chlorophenoxy herbicides as Group 2B chemicals (limited evidence for carcinogenicity in humans). USEPA gives chlorophenoxy herbicides a Class D determination (not classifiable as to human carcinogenicity). More recent studies and reviews demonstrate that 2,4-D is not a 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.

SECTION IX: ADDITIONAL INFORMATION

ACTIVE INGREDIENT LEVEL (%): 1.153 as 2,4-D ester
0.174 as MCPP acid
0.073 as dicamba acid
0.034 as sulfentrazone

SARA INFORMATION:

SECTION 302: Not an "extremely hazardous substance"

SECTION 313: 2,4-D, MCPP, and dicamba listed

CERCLA RQ: 100 pounds (2,4-D ester), 1000 pounds (dicamba)

RCRA LISTING: 2,4-D portion listed (U240, D016)

MSDS ID NO: 5134

PREPARED BY: SS

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will The Andersons be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which this information refers.