



**THE ANDERSONS
MATERIAL SAFETY DATA SHEET**

PRODUCT CODE: APT164ES4

DATE PREPARED: 12/14/05

SECTION I: PRODUCT IDENTITY

PRODUCT NAME: The Andersons Professional Turf Products 16-0-8 with Escalade 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: 12/14/05

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)		
Corn cob fractions (CAS # Not listed)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Escalade (CAS # Not listed)	10 mg/m ³ (2,4-D)	10 mg/m ³ (2,4-D)

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, bases, acids, hypochlorites

HAZARDOUS DECOMPOSITION PRODUCTS: HCN, NO_x, CO_x, NH₃, cyanuric acid, HCl, PO_x, 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 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, and shortness of breath. Skin irritation may result; repeated or prolonged skin exposures may result in dermatitis. May also be corrosive or 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, decreased blood pressure, muscle weakness, muscle spasms, nausea, vomiting, 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 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 2,4-D as a class 2B carcinogen (limited evidence for carcinogenicity in humans), while USEPA has determined that 2,4-D and dicamba are not classifiable as to human carcinogenicity.

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 (%): 1.14 as Escalade

SARA INFORMATION:

SECTION 302: Not an "extremely hazardous substance"

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

CERCLA RQ: 100 pounds for 2,4-D
1000 pounds for dicamba

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

MSDS ID NO: 5131

PREPARED BY: SS

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