



**THE ANDERSONS  
SAFETY DATA SHEET**

DATE PREPARED: 12/14/05

CURRENT AS OF: 7/6/15

**SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION**

PRODUCT CODE: APT164ES4.1

PRODUCT NAME: The Andersons Professional Turf Products Fertilizer 16-0-8 with Escalade Herbicide

PRODUCT USE: Fertilizer / Pesticide

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

FOR EMERGENCY: (800) 757-8951

FOR INFORMATION: (419) 891-2957

**SECTION 2: HAZARDS IDENTIFICATION**

HAZARD SYMBOLS / STATEMENTS:



**WARNING**

**HARMFUL IF SWALLOWED  
MAY CAUSE MILD SKIN IRRITATION  
MAY CAUSE EYE IRRITATION  
MAY CAUSE RESPIRATORY IRRITATION**

HAZARD CLASSIFICATIONS:

*ACUTE TOXICITY*

*SKIN IRRITATION*

*EYE IRRITATION*

*TARGET ORGAN SYSTEMIC TOXICITY*

CATEGORY

4

3

2B

3

INTERPRETATION

Low to Moderate

Mild Skin Irritation Possible

Promptly Reversible Eye Irritation Possible

Transient Respiratory Irritation Possible

PRECAUTIONARY STATEMENTS:

- *KEEP OUT OF REACH OF CHILDREN*
- *READ LABEL BEFORE USE*
- *IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL ON HAND*
- *CALL A POISON CENTER / PHYSICIAN IF UNWELL*
- *IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER*
- *IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE*
- *IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES – REMOVE CONTACT LENSES*
- *IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE*
- *WASH HANDS AFTER HANDLING*
- *USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS*
- *AVOID BREATHING DUST*
- *IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING*
- *STORE CONTAINER TIGHTLY CLOSED*
- *DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS*

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

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION (%)</u>
Limestone		1317-65-3	43.9
Urea		57-13-6	26.1
Potassium chloride	Potash	7447-40-7	13.0
Sulfur coated urea		Mixture	10.9
Corn cob fractions		Mixture	5.0
Escalade		Mixture	1.2

**SECTION 4: FIRST AID MEASURES**

IF INHALED:	Move victim to fresh air. 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.
IF IN THE EYES:	Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists.
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.
SPECIAL TREATMENT:	None known
HEALTH HAZARDS:	See Section 11

**SECTION 5: FIREFIGHTING MEASURES**

EXTINGUISHING MEDIA:	Use media suitable for surrounding fire. No special media required.
SPECIFIC FIRE HAZARDS:	Decomposition products may be toxic. Sulfur will burn when separated from molten urea.
SPECIAL FIREFIGHTING PROCEDURES:	Wear full protective clothing and positive-pressure self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

SPILL / RELEASE PROCEDURES:	Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly.
ENVIRONMENTAL PRECAUTIONS:	Prevent spilled material from entering storm drains or water bodies.
PROTECTIVE EQUIPMENT:	See Section 8

**SECTION 7: HANDLING AND STORAGE**

Store in a cool, dry, well ventilated area. Do not store above 120° F.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS:

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Limestone	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	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)
Potassium chloride	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)
Corn cob fractions	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)
Escalade	10 mg/m <sup>3</sup> (2,4-D)	10 mg/m <sup>3</sup> (2,4-D)

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

RESPIRATORY PROTECTION:	NIOSH approved pesticide respirator, if required
EYE PROTECTION:	Safety glasses with sideshields, goggles, or faceshield recommended
SKIN PROTECTION:	Long sleeves, chemical-resistant (rubber) recommended
VENTILATION:	Local exhaust ventilation recommended

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR:	Multi-colored granular mix, with slight odor
pH:	Not available
MELTING POINT:	Not available
BOILING POINT:	Not applicable
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not applicable
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
SPECIFIC GRAVITY:	Not available
SOLUBILITY (IN WATER):	Partially soluble
PARTITION COEFFICIENT:	Not applicable
AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY:	Product is stable.
CONDITIONS TO AVOID:	Excessive heat (greater than 200°F)
INCOMPATIBILITY:	Strong oxidizers, caustics, bases, acids, hypochlorites
HAZARDOUS DECOMPOSITION PRODUCTS:	HCN, NO <sub>x</sub> , CO <sub>x</sub> , NH <sub>3</sub> , cyanuric acid, HCl, SO <sub>x</sub>

**SECTION 11: TOXICOLOGICAL INFORMATION**

**HEALTH EFFECTS:** 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.

**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.

**INGREDIENT TOXICITY RANGES:**

ORAL: 896 mg/kg (2,4-D) – 14,300 mg/kg (urea)

DERMAL: > 2,000 mg/kg (dicamba) -- > 4,000 mg/kg (2,4-D)

INHALATION: > 5.4 mg/L (2,4-D) -- > 9.6 mg/L (dicamba)

**SECTION 12: ECOLOGICAL INFORMATION**

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all national, regional / state, and local regulations. Reuse recovered product where possible.

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated as a transportation hazard.

**SECTION 15: REGULATORY INFORMATION**

SARA SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD

**SECTION 16: OTHER INFORMATION**

NFPA RATINGS: HEALTH 1  
FLAMMABILITY 0  
INSTABILITY 0

HMIS RATINGS: HEALTH 1  
FLAMMABILITY 0  
PHYSICAL HAZARD 0

ACTIVE INGREDIENT LEVEL (%): 0.865 as 2,4-D ester  
0.206 as fluroxypyr  
0.072 as dicamba acid

MSDS ID NO: 5131

PREPARED BY: SS

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