



**THE ANDERSONS
SAFETY DATA SHEET**

DATE PREPARED: 10/24/04

CURRENT AS OF: 3/12/18

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: APT153ML4.6, APT153ML4.50

PRODUCT NAME: The Andersons Professional Turf Products 15-0-8 with Millenium Ultra 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) 893-5050

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



WARNING

**HARMFUL IF SWALLOWED
CAUSES SKIN, EYE AND RESPIRATORY IRRITATION**

HAZARD CLASSIFICATIONS:

ACUTE TOXICITY - ORAL

EYE IRRITATION

SKIN IRRITATION

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

CATEGORY

4

2B

2

3

INTERPRETATION

Harmful if swallowed

Causes eye irritation

Causes skin irritation

Causes irritation to respiratory tract

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*
- *DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT*
- *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 THOROUGHLY 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 | 40-50 |
| Urea | | 57-13-6 | 20-30 |
| Potassium chloride | Potash | 7447-40-7 | 10-20 |
| Sulfur coated urea | | Mixture | 5-15 |
| Corn cob fractions | | Mixture | 1-10 |
| Millenium Ultra | | Mixture | 0.5-5 |

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 PROTECTIONEXPOSURE LIMITS:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| <u>HAZARDOUS COMPONENT</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|----------------------------|--|--|
| Limestone | 15 mg/m ³ (total) 5 mg/m ³ (respirable) | 10 mg/m ³ (inhalable) 3 mg/m ³ (respirable) |
| Urea | 15 mg/m ³ (total) 5 mg/m ³ (respirable) | 10 mg/m ³ (inhalable) 3 mg/m ³ (respirable) |

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) gloves recommended |
| VENTILATION: | Local exhaust ventilation recommended |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|---|
| APPEARANCE AND ODOR: | Multi-colored granular mix, with slight ammonia / sulfur / amine 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 |
| ODOR THRESHOLD: | Not available |
| VISCOSITY: | Not available |

SECTION 10: STABILITY AND REACTIVITY

| | |
|-----------------------------------|---|
| STABILITY: | Product is stable. |
| CONDITIONS TO AVOID: | Excessive heat (greater than 200°F) |
| INCOMPATIBILITY: | Strong oxidizers, acids, caustics, hypochlorites |
| HAZARDOUS DECOMPOSITION PRODUCTS: | HCN, NO _x , CO _x , NH ₃ , HCl, cyanuric acid, SO _x , H ₂ S |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|-----------------|---|
| HEALTH EFFECTS: | 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 abdominal pain, nausea, diarrhea, headache, and muscle weakness. 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, the product may contain trace amounts of crystalline silica, which is listed by IARC as a potential human carcinogen.

INGREDIENT TOXICITY RANGES:

ORAL: 949 mg/kg (2,4-D) – 14,300 mg/kg (urea)

DERMAL: > 2,000 mg/kg (Millenium Ultra)

INHALATION: > 3.5 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: ACUTE 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 (%): 0.690 as 2,4-D salt
0.071 as clopyralid
0.071 as dicamba salt

SDS ID NO: 5048C

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.