



**THE ANDERSONS  
SAFETY DATA SHEET**

DATE PREPARED: 09/11/03

CURRENT AS OF: 6/22/17

**SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION**

PRODUCT CODE: APPG231FE5

PRODUCT NAME: The Andersons 23+2+10 (23+0.9+8.3) Turf Fertilizer with NS-52 Nitrogen

PRODUCT USE: Fertilizer

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**

**MAY CAUSE EYE IRRITATION  
MAY CAUSE RESPIRATORY IRRITATION**

HAZARD CLASSIFICATIONS:

*EYE IRRITATION*

*SPECIFIC TARGET ORGAN TOXICITY*

- *SINGLE EXPOSURE*

CATEGORY

2B

3

INTERPRETATION

Eye Irritation Possible

Causes irritation to respiratory tract

PRECAUTIONARY STATEMENTS:

- *CALL A POISON CENTER / PHYSICIAN IF UNWELL*
- *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>
Sulfur coated urea		Mixture	30-40
Potassium sulfate	Sulfate of potash	7778-80-5	15-25
Urea		7783-28-0	10-20
Limestone		1317-65-3	10-20
Inorganic iron mix		Mixture	5-15
Diammonium phosphate		7783-28-0	1-10

**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:

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>
Potassium sulfate	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)
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)
Inorganic iron mix	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)
Diammonium phosphate	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)

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR:	Multi-colored granular mix, with slight sulfur / ammonia 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 applicable

**SECTION 10: STABILITY AND REACTIVITY**

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

**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. 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.

**CARCINOGENICITY:** None of the ingredients are known / listed carcinogens. However, product may contain trace amounts of crystalline silica and inorganic fluorides. Fluorides have been suggested as a reproductive hazard and a carcinogen. Crystalline silica is listed by IARC as a potential human carcinogen.

**INGREDIENT TOXICITY RANGES:**

ORAL: > 2,000 mg/kg (diammonium phosphate) – 14,300 mg/kg (urea)  
 DERMAL: > 5,000 mg/kg (diammonium phosphate)  
 INHALATION: None listed

**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

SDS ID NO: 94

PREPARED BY: TS

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