

THE ANDERSONS SAFETY DATA SHEET

DATE PREPARED: 1/19/16

CURRENT AS OF: 1/31/22

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10002799, 10001778

PRODUCT NAME: NULEX® 10% ZINC

PRODUCT USE: Fertilizer / micronutrient

MFR INFO: The Andersons, Inc. PO Box 119 Maumee, OH 43537

> FOR EMERGENCY: (800) 757-8951 FOR INFORMATION: (419) 893-5050

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



MAY CAUSE EYE IRRITATION MAY CAUSE RESPIRATORY IRRITATION

HAZARD CLASSIFICATIONS:	CATEGORY	INTERPRETATION
EYE IRRITATION	2A	Eye Irritation Possible
TARGET ORGAN SYSTEMIC TOXICITY	3	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 THOROUGHLY AFTER HANDLING
- USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS
- AVOID BREATHING MIST
- 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

CHEMICAL IDENTITY

SYNONYM

CAS NUMBER

CONCENTRATION (%)

Micronutrient fertilizer

Mixture

100.0

SECTION 4: FIRST AID MEASURES

IF INHALED:	Move victim to	o fresh air. Seek medical attention if irritation persists.	
IF ON SKIN:		l areas with soap and water. Seek medical attention if irritation h contaminated clothing before re-use.	
IF IN THE EYES:	Immediately fluint irritation persis	ush with water for at least 20 minutes. Seek medical attention if sts.	
IF SWALLOWED:		t and not convulsing, give one glass of water to dilute material, nduce vomiting. Seek immediate medical attention.	
SPECIAL TREATMENT:	None known		
HEALTH HAZARDS:	See Section 1	1	
SECTION 5: FIREFIGHTING MEASURES			
EXTINGUISHING MEDIA:		Use media suitable for surrounding fire. No special media required.	
SPECIFIC FIRE HAZARDS:		Decomposition products may be toxic.	
SPECIAL FIREFIGHTING PRO	OCEDURES:	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, if possible. 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.

HAZARDOUS COMPONENT	<u>OSHA PEL</u>	ACGIH TLV
Ammonia	35 mg/m ³	18 mg/m³ 27 mg/m³ (STEL)
Sulfuric acid	1 mg/m ³	0.2 mg/m ³
Zinc oxide	5 mg/m³	2 mg/m ³

NULEX® ZINC 10%

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colorless to blue liquid with slight ammonia odor pH: 10.3 MELTING POINT: Not applicable Not available **BOILING POINT:** FLASH POINT: Not available Not available EVAPORATION RATE: FLAMMABLE LIMITS: Not available VAPOR PRESSURE: Not available VAPOR DENSITY: Not available SPECIFIC GRAVITY: 1.20 Soluble SOLUBILITY (IN WATER): PARTITION COEFFICIENT: Not available 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

INCOMPATIBILITY: Strong oxidizers, reducers, bases

HAZARDOUS DECOMPOSITION PRODUCTS: SOx, NH₃, ZnO, HCI, NOx, COx

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May be irritating to the eyes, skin, nose, throat, and respiratory tract, and may cause sore throat, coughing, shortness of breath, and increased pulse rate and blood pressure. Ingestion may cause methemoglobinemia, cyanosis, headache, weakness, dizziness, and stupor. Significant overexposure may result in severe skin burns / blisters, corneal ulcers, blindness, nausea, vomiting, and death.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens. However, product may contain trace amounts of cadmium, which is listed by IARC as a human carcinogen.

INGREDIENT TOXICITY RANGES:

ORAL: 1,410 mg/kg (ammonium chloride) -- 2,217 mg/kg (ammonium nitrate)

DERMAL: > 2,000 mg/kg (ammonium chloride)

INHALATION: > 88.8 mg/l (4 hr) (ammonium nitrate)

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SECTION 12: ECOLOGICAL INFORMATION

This product is not known to be 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 FLAMMABILITY INSTABILITY	1 0 0
HMIS RATINGS:	HEALTH FLAMMABILITY PHYSICAL HAZARD	1 0 0

PREPARED BY: SS

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