

### THE ANDERSONS SAFETY DATA SHEET

### DATE PREPARED: 3/12/24

## CURRENT AS OF: 3/12/24

### SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10000125, 10000126, 10001956, 10001709

PRODUCT NAME: TRI Z™

PRODUCT USE: Fertilizer

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

HAZARD CLASSIFICATIONS:	<b>CATEGORY</b>	<b>INTERPRETATION</b>
ACUTE TOXICITY	5	Low
SKIN IRRITATION	3	Mild Skin Irritation Possible
EYE IRRITATION	2B	Promptly Reversible
TARGET ORGAN SYSTEMIC TOXICITY	3	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 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 MIST
- IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING
- STORE CONTAINER TIGHTLY CLOSED IN WELL-VENTILATED PLACE
- DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS

SECTION 3: COMPOSITIO				
CHEMICAL IDENTITY	<u>SYNON'</u>	<u>YM</u>	<u>CAS NUMBER</u>	CONCENTRATION (%
Ureas	Mixed ur	reas	57-13-6	10-20
Zinc Sulfate Monohydrate			7446-19-7	00-10
Ammonium Chloride	Salmiac		12125-02-9	10-20
Zinc EDTA, Diammonium Sa	alt Solution		67859-51-2	10-20
Zinc Oxide			1314-13-2	10-20
Ammonium Hydroxide Soluti	on Aqua An	nmonia	1336-21-6	00-10
SECTION 4: FIRST AID M	IEASURES			
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 and induce vomiting. Seek medical attention.		
SPECIAL TREATMENT:	None known			
HEALTH HAZARDS:	See Section 11			
SECTION 5: FIREFIGHTING MEASURES				
EXTINGUISHING MEDIA:		Use media su required.	itable for surrounding f	ire. No special media
SPECIFIC FIRE HAZARDS:	l	Decompositio	n products may be tox	ic.
SPECIAL FIREFIGHTING P			ective clothing and pos athing apparatus (SCE	
SECTION 6: ACCIDENTA	L RELEASE MEASU	JRES		
SPILL / RELEASE PROCEDURES: Collect spilled product an and/or environmental me properly.				
ENVIRONMENTAL PRECAUTIONS: Prevent		spilled materi	al from entering storm	drains or water bodies.

PROTECTIVE EQUIPMENT: See Section 8

## SECTION 7: HANDLING AND STORAGE

Wash hands after handling material. Do not eat, drink or smoke while handling the material. Do not breathe vapors/mist. Not intended for human consumption. Store in a cool, dry, well-ventilated area away from incompatible materials.

### **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. Currently, the other constituents have no known exposure limits.

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV			
Ammonium Hydroxide	25 mg/m³ (TWA) 35 mg/m³ (STEL)	18 mg/m³ 27 mg/m³ (STEL)			
Manganese Compounds	5mg/m <sup>3</sup>	0.2mg/m <sup>3</sup>			
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, chemical resistant (rubber) gloves recommended				
VENTILATION:	Local exhaust ventilation recommended				

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Yellow liquid with slight ammonia odor pH: 9.5 Not applicable MELTING POINT: **BOILING POINT:** ~ 200 F Not flammable FLASH POINT: **EVAPORATION RATE:** Not available FLAMMABLE LIMITS: Not applicable Not available VAPOR PRESSURE: Not available VAPOR DENSITY: SPECIFIC GRAVITY: 1 24 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: Extreme heat

INCOMPATIBILITY: Strong reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS: NOx, NH<sub>3</sub>, metal oxides.

# TRI Z™

# SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May cause irritation of the eyes, skin, respiratory tract, and gastrointestinal tract

CARCINOGENICITY: None of the ingredients are known / listed carcinogens.

### INGREDIENT TOXICITY RANGES:

ORAL: > 1,410 (ammonium chloride) – 14,300 mg/kg (urea)

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

# SECTION 12: ECOLOGICAL INFORMATION

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

# SECTION 13: DISPOSAL CONSIDERATIONS

Use product for intended purpose where possible. Dispose of in accordance with all national, regional / state, and local regulations.

# SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION					
SARA 311/312:			ACUTE		
SARA 313:			Zinc Sulfate Monohydrate Zinc Compounds Ammonium Hydroxide		
REPORTABLE QUAN	NTITY:		Zinc Compounds (No RQ) Ammonium Hydroxide (1,000 lbs.)		
RIGHT-TO-KNOW:			Zinc Compounds (CA, IL, MA, NJ, PA) Ammonium Hydroxide (PA)		
CLEAN WATER ACT	:		Zinc Sulfate Monohydrate		
SECTION 16: OTHER INFORMATION					
NFPA RATINGS:	HEALTH FLAMMABILITY INSTABILITY	1 0 0			

### PREPARED BY: DBA EHS CONSULTING

HEALTH

FLAMMABILITY

INSTABILITY

HMIS RATINGS:

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