



THE ANDERSONS
SAFETY DATA SHEET

DATE PREPARED: 11/27/19

CURRENT AS OF: 3/8/23

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10006109,10006111,10007961, 10007990

PRODUCT NAME: GENESIS RX® ZEOLITE+ 3-4-3

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:



WARNING

CAUSES SKIN, EYE AND RESPIRATORY IRRITATION. HARMFUL IF INHALED.

HAZARD CLASSIFICATIONS:

EYE IRRITATION

SKIN IRRITATION

ACUTE TOXICITY, INHALATION

SPECIFIC TARGET ORGAN TOXICITY

- *SINGLE EXPOSURE*

CATEGORY

2B

2

4

3

INTERPRETATION

Causes eye irritation

Causes skin irritation

Harmful if inhaled

Causes irritation to respiratory tract

PRECAUTIONARY STATEMENTS:

- *P260 & 261: AVOID BREATHING DUST*
- *P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA*
- *P280: WEAR APPROPRIATE PROTECTIVE EQUIPMENT FOR SKIN EXPOSURE. IN CASE OF INADEQUATE VENTILATION WEAR AN APPROVED RESPIRATOR SUITABLE FOR CONDITIONS OF USE*
- *P362 & 363: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE*
- *P304 & P340: IF INHALED AND BREATHING BECOMES DIFFICULT, REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING*
- *P308 & P313: IF EXPERIENCING RESPIRATORY SYMPTOMS, FOLLOWING REMOVAL TO FRESH AIR, SEEK MEDICAL ATTENTION*
- *P313: IF SKIN IRRITATION OR RASH OCCURS, SEEK MEDICAL ATTENTION*
- *P272: CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE*
- *P362: WASH CONTAMINATED CLOTHING BEFORE REUSE*
- *P352 & P264: IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER*

GENESIS RX® ZEOLITE+ 3-4-3

- *P338 & P351: IF IN EYES, RINSE CAUTIOUSLY FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO SO*

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION (%)</u>
Zeolite	Clinoptilolite	12173-10-3	45-55
Ammonium Dihydrogen Phosphate	MAP	7722-76-1	00-10
Ureas	Mixed ureas	57-13-6	00-10
Struvite		13478-16-5	05-15
Humic Acid		1415-93-6	05-15
Ammonium Sulfate		7783-20-2	00-10
Potassium Sulfate		7778-80-5	00-10
Gypsum		7631-86-9	30-40

SECTION 4: FIRST AID MEASURES

IF INHALED:	Move to fresh air and keep comfortable, seek medical attention if unwell.
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 15-20 minutes, remove contact lenses if present and easy to do – continue rinsing. Seek medical attention if irritation persists.
IF SWALLOWED:	Rinse mouth. DO NOT INDUCE VOMITING unless directed by a medical professional. Seek medical attention if unwell.
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:	When heated to decomposition, this product will emit toxic oxides, sulfides and ammonia.
SPECIAL FIREFIGHTING PROCEDURES:	Wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / RELEASE PROCEDURES:	Contain material and place in containers for use as intended, or discard according to Federal, State and Local regulations.
ENVIRONMENTAL PRECAUTIONS:	Prevent spilled material from entering storm drains or water bodies. If material enters a waterway, notify the appropriate authorities.

PROTECTIVE EQUIPMENT: Wear PPE according to Section 8

SECTION 7: HANDLING AND STORAGE

Avoid creating or accumulating dusts during processing and application. Wash hands after handling material. Do not eat, drink or smoke while handling the material. Do not breathe dusts. Not intended for human consumption. Do not store with food or feedstuffs. 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.

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Gypsum	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 respirator, if required
EYE PROTECTION:	Safety glasses with sideshields, goggles, or faceshield
SKIN PROTECTION:	Appropriate for the task. Impervious and compatible with material
VENTILATION:	Use with adequate ventilation

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Black, white, and gray granules with slightly musty odor
pH:	Not applicable
MELTING POINT:	Not applicable
BOILING POINT:	Not available
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not available
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not available
VAPOR DENSITY:	Not available
SPECIFIC GRAVITY:	~0.800
SOLUBILITY (IN WATER):	Soluble
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:	Heat, accumulation of dusts
INCOMPATIBILITY:	Strong acids, bases, oxidizers, soft metals and alloys.
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic oxides, sulfides and ammonia

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Causes eye, skin and respiratory irritation. Harmful if inhaled.

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: > 3,200 mg/kg (potassium sulfate) – 14,300 mg/kg (urea)

SECTION 12: ECOLOGICAL INFORMATION

Long term degradation products may arise. Products of degradation are not expected to be hazardous. Excessive nutrients in waterways may cause algal blooms that may be detrimental to aquatic life.

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

DSL/NDSL: All components are on the DSL inventory

CEPA: None

SECTION 16: OTHER INFORMATION

NFPA RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0

HMIS RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0

PREPARED BY: DBA EHS CONSULTING

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.