

SAFETY DATA SHEET

CURRENT AS OF: 3/7/25

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10010384

PRODUCT NAME: BIOMEND® 3-4-3 STARTER

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 SYMBOL:

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SIGNAL WORD: WARNING

HAZARD STATEMENT: CAUSES SERIOUS EYE, SKIN, AND RESPIRATORY IRRITATION.

 HAZARD CLASSIFICATIONS
 CATEGORY
 INTERPRETATION

 EYE IRRITATION
 2A
 Causes serious eye irritation

 SKIN IRRITATION
 2
 Causes skin irritation

 SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE 3 Causes irritation to respiratory tract

PRECAUTIONARY STATEMENTS:

- WEAR PROTECTIVE GLOVES AND CLOTHING
- REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE
- AVOID BREATHING DUSTS
- IF INHALED: MOVE TO FRESH AIR AND KEEP COMFORTABLE. SEEK MEDICAL ATTENTION IF UNWELL
- USE ONLY OUTDOORS OR IN WELL-VENTILATED AREA
- CALL POISON CONTROL OR SEEK MEDICAL ATTENTION IF YOU FEEL UNWELL
- WASH THOROUGHLY AFTER HANDLING
- DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT
- IF SWALLOWED: RINSE MOUTH. SEEK MEDICAL ATTENTION IF UNWELL.
- IF IN EYES OR ON SKIN: RINSE AREA WITH PLENTY OF WATER, REMOVE CONTACT LENSES AND SEEK MEDICAL ATTENTION.
- IF EYE OR SKIN IRRITATION CONTINUES: SEEK MEDICAL ATTENTION

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	<u>SYNONYM</u>	CAS NUMBER	CONCENTRATION (%)
Rock Phosphate	Apatite	1306-05-4	40-50
BioChar	Carbon	7440-44-0	00-10
Humic Acid		1415-93-6	00-10
Iron Sulfate		7720-78-7	00-10

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/fumes, and sulfides.

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

Wash hands after handling material. Do not eat, drink or smoke while handling the material. Avoid breathing 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. At this time, the other constituents have no known exposure limits.

HAZARDOUS COMPONENT OSHA PEL ACGIH TLV

Ferrous Sulfate $1 \text{ mg/m}^3 \text{ (TWA)}$

1 mg/m³ (TWA) (NIOSH)

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: Tan, black, and brown granules with sweet odor

Not applicable pH: MELTING POINT: Not applicable Not available **BOILING POINT:** Not flammable FLASH POINT: **EVAPORATION RATE:** Not available Not applicable FLAMMABLE LIMITS: VAPOR PRESSURE: Not available VAPOR DENSITY: Not available SPECIFIC GRAVITY: Not available SOLUBILITY (IN WATER): Soluble PARTITION COEFFICIENT: Not available **AUTOIGNITION TEMP:** Not available **DECOMPOSITION TEMP:** Not available

ODOR THRESHOLD: Not available Not available VISCOSITY:

SECTION 10: STABILITY AND REACTIVITY

Product is stable. STABILITY:

CONDITIONS TO AVOID: Heat

INCOMPATIBILITY: Strong acids, bases, and oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic oxides/fumes and ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Causes serious eye, skin, and respiratory irritation.

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

INGREDIENT TOXICITY RANGES:

ORAL: > 319 mg/kg (ferrous sulfate) – 3,200 mg/kg (potassium sulfate)

DERMAL: > 155 mg/kg (ferrous sulfate)

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

US FEDERAL REGULATIONS

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA

Title III, Section 302.

SARA 304: This material does not contain any components with a section 304 EHS RQ.

SARA 311 / 312: Acute Health Hazard

SARA 313: The following components are subject to reporting levels established by SARA

Title III, Section 313:

CHEMICAL NAME CAS No. % BY WEIGHT

No requirements.

CERCLA (RQ): CHEMICAL NAME CAS No. REPORTABLE QTY (lbs)

No requirements.

TSCA					
Chemical Name	CAS No.	US TSCA Inventory Listing	US TSCA Inactive / Active Designation		
Potassium Sulfate	7778-80-5	Present	Active		
Iron Sulfate	7720-78-7	Present	Active		
Humic Acid	1415-93-6	Present	Active		
Activated Charcoal	7440-44-0	Present	Active		

US STATE REGULATIONS

RIGHT-TO-KNOW: CHEMICAL NAME CAS No. States

No requirements.

CALIFORNIA PROP 65: No requirements

SECTION 16: OTHER INFORMATION

NFPA RATINGS: HEALTH 1

FLAMMABILITY 0 INSTABILITY 0

HMIS RATINGS: HEALTH 1

FLAMMABILITY 0 INSTABILITY 0

PREPARATION & VERSION INFORMATION

Version 001 - SDS originally created 03/07/2025 Prepared By DBA EHS Consulting

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