



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Grass-Repair-Kit Tall Fescue Mix**
 Formula: Grass Seed + Dairy Manure Digestate + Gypsum + Limestone + Anionic Polyacrylamide + ESN Fertilizer + Water Insoluble Cross-Linked Polyacrylamide
 CAS No.: N/A
 Recommended Use: Grass Seed & Fertilizer

Company Identification: **Encap, LLC**
 320 N. Broadway, Suite 340
 Green Bay, WI 54303
 Phone: (877) 405-5050

2. HAZARDS IDENTIFICATION

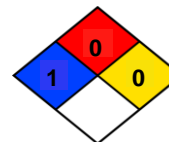
HMIS Classification

Health Hazard:	1	HEALTH	1
Chronic Health Hazard:	-	FIRE	0
Flammability:	0	REACTIVITY	0
Physical Hazards:	0	PPE	E

(Safety glasses, gloves, and dust respirator)

NFPA Rating

Health Hazard: 1
 Fire: 0
 Reactivity Hazard: 0
 Special Hazard: None



GHS Labeling

Symbol: Exclamation mark
 Signal Word: Warning



Hazard Statements:

H303 May be harmful if swallowed
 H315 Causes skin irritation
 H320 Causes eye irritation
 H335 May cause respiratory irritation

Precautionary Statements: P 261 Avoid breathing dust
 P 102 Keep out of reach of children

Hazards Not Otherwise Classified: Unknown

Target Organs

Skin, eyes, and respiratory system.

Potential Immediate Health Effects

Inhalation: May cause respiratory tract irritation.
 Skin: May cause skin irritation.
 Eyes: May cause eye irritation.
 Ingestion: May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the material hardens.

Earth Science Grass Repair Kit 5 lb Jug Turf Type Tall Fescue Mix

3. COMPOSITION

Chemical Identity: Calcium Carbonate	47.7%
Common Name: Calcitic Limestone	
CAS No.: 471-34-1	
Chemical Identity: Digested Dairy Manure	34.5%
Common Name: Digested Dairy Manure	
CAS No.: NA	
Chemical Identity: Calcium sulfate dihydrate	10.0%
Common Name: Gypsum	
CAS No.: 10101-41-4	
Chemical Identity: Turf Type Tall Fescue Grass Seed (includes inert)	6.4%
Common Name: Turf Type Tall Fescue Grass Seed (includes inert)	
CAS No.: N/A	
Chemical Identity: Anionic Polyacrylamides	0.9%
Common Name: Anionic Polyacrylamides	
CAS No.: 9003-05-08	
Chemical Identity: ESN Polymer Coated Urea	0.5%
Common Name: Urea	
CAS No.: 57-13-6	

4. FIRST AID MEASURES

EYE:

Symptoms: May cause eye irritation.

Irrigate immediately. If this product contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Seek medical attention if needed.

SKIN:

Symptoms: May cause skin irritation.

Wash skin immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if needed.

INHALATION:

Symptoms: Respiratory tract irritation.

Fresh air. If a person breathes in large amounts of this product, move to fresh air at once. Seek medical attention if needed.

INGESTION:

Symptoms: May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the material hardens.

Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Drink plenty of water. If needed, seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

A fine water spray, fog, CO₂ or dry chemical.

Unsuitable Extinguishing Media

None known.

Special Protective Equipment for Fire-Fighters

No special protective equipment required. Note: Aqueous solutions or powders may render surfaces slippery.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Remove sources of ignition if this material is stored or handled in a dry state.

Environmental Precautions

Prevent product from entering drains.

Methods and Materials for Containment and Clean-up

Contain spill, scoop up excess, apply suitable absorbent material and dispose of in an appropriate container. Do not flush with water. Sweep spilled substance into containers; avoid generating dust. Reuse if not contaminated.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed.

Recommended Conditions for Storage

Store in a cool dry place. Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

	CAS No.	ACGIH TLV	OSHA/PEL
Turf Type Tall Fescue Grass Seed	No CAS No.	unknown	unknown
Digested Dairy Manure	No CAS No.	unknown	unknown
Calcium carbonate	471-34-1	3 mg/m ³ resp.	5 mg/m ³ resp.
Calcium Sulfate Dihydrate (gypsum)	10101-41-4	10 mg/m ³	15 mg/m ³
Anionic Polyacrylamide	9003-05-08	unknown	unknown
ESN Fertilizer	57-13-6	10 mg/m ³	10 mg/m ³

Engineering Controls

Local exhaust ventilation recommended. Running water should be available in case material gets in eyes.

Personal Protective Equipment

Respiratory Protection

If dust becomes airborne, a NIOSH (US) or CEN (EU) approved respirator for dusts is recommended.

Hand Protection

None required. Protective gloves recommended.

Skin and Body Protection

Long sleeves or lab coat and long pants are recommended.

Eye Protection

NIOSH (US) or CEN (EU) approved safety glasses with side shields, goggles, or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Mixture of brown granules, seed, green granules, and whitish granules
Odor: Earthy
Odor threshold: Unknown
pH: Unknown
Melting Point: N/A
Freezing Point: Unknown
Evaporation Rate: 0
Flammability: Not flammable
Explosion Limits: Unknown
Vapor Pressure: N/A
Vapor Density: N/A
Specific Gravity: Unknown
Solubility in Water: Low
Partition coefficient: Unknown
Auto-ignition temp.: Unknown
Decomposition temp.: Unknown
Viscosity: N/A
Other: Unknown

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10. STABILITY AND REACTIVITY

- Reactivity:** Non-reactive under recommended storage conditions. May react with strong oxidizing or reducing agents, aluminum (at high temperatures), and diazomethane.
- Chemical Stability:** Stable under recommended storage conditions. Avoid excess sources of ignition, heat, and incompatible materials. Dust suspended in air is readily ignited.
- Conditions to Avoid:** Large amounts of airborne dust.
- Hazardous Decomposition Products:** Thermal decomposition may produce CO, CO₂, oxides of sulfur, oxides of calcium, oxides of nitrogen, and hydrocyanic acid.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Eyes, skin, ingestion and inhalation.

Potential Health Effects

Inhalation: May cause respiratory tract irritation.

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the material hardens.

Acute Toxicity

LD50 Oral - rat - 8,471 mg/kg (urea)

Reproductive Toxicity

No data available.

Germ Cell Mutagenicity

No data available.

Specific target organ toxicity - single exposure

Adverse health effects are not expected under normal use.

Specific target organ toxicity - repeated exposure

Adverse health effects are not expected under normal use.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

IARC = International Agency for Research on Cancer

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

ACGIH = American Conference of Industrial Hygienists

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.

NTP = National Toxicology Program

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

OSHA = Occupational Safety and Health Administration

12. ECOLOGICAL INFORMATION

Toxicity

Acute LC50 - Fish - Rohu - *Labeo rohita* - Egg 66,800 to 70,500 ug/L - 96 hr (urea)

Acute LC50 - Fish - *Mozambique tilapia* - Tilapia mossambica 22,500 ug/L - 96 hr (urea)

Persistence and Degradability

Inherently biodegradable.

Bioaccumulative Potential

Does not bioaccumulate.

Mobility

Water contaminating.

PBT and vPvB Assessment

Does not bioaccumulate.

Other Adverse Effects

Large amounts released to water systems may harm aquatic plant and animal life.

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13. DISPOSAL CONSIDERATIONS

May be disposed of as an inert solid in sanitary landfill or by other procedures in accordance with all federal, state and local regulations. May be used as a supplement on land and on some agricultural products.

14. TRANSPORT INFORMATION

DOT (US)

This material is not regulated by the DOT.

IMDG

This material is not regulated by the IMDG.

IATA

This material is not regulated by IATA.

15. REGULATORY INFORMATION

OSHA Hazards

None of the chemicals in this product are listed as highly hazardous by OSHA.

DSL Status

All components with CAS numbers are specified on the Canadian Domestic Substance List (DSL).

SARA 302 Compounds

No chemicals in this material are subject to SARA Title III, Section 302 reporting.

SARA 313 Compounds

No chemicals in this material are subject to the reporting requirements of Section 313 of SARA.

SARA 311/312 Hazards

No chemicals in this material are subject to Section 311/312 of SARA.

Massachusetts Right To Know

Limestone and gypsum are listed by the Massachusetts Right to Know Act.

New Jersey Right To Know

Limestone and gypsum are listed by the New Jersey Right to Know Act.

Pennsylvania Right To Know

Limestone and gypsum are listed by the Pennsylvania Right to Know Act.

Rhode Island Right To Know

Limestone and gypsum are listed by the Rhode Island Right to Know Act.

California Proposition 65

This product contains a chemical known to the state of California to cause cancer: Residual Acrylamide.

16. OTHER INFORMATION

No data is available, per 29 CFR 1910.1200(d)(b); health hazards are based upon all of the components which make up the mixture.

The above information is believed to be correct, but is not purported to be all-inclusive and should only be used as a guide. Because data, safety standards, and regulatory inputs are subject to change, no warranty, guarantee, or representation with respect to the completeness or continuing accuracy of the information contained in this document is made. The user of this product must decide what safety measures are necessary to safely use this product; the conditions of handling and use, or misuse, are beyond the control of Encap, LLC. The user is also responsible to determine its environmental regulatory compliance obligations under any applicable federal or state laws.

MSDS Preparation History

Original Preparer
July 2021 Encap LLC staff