

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lawn Food Plus

Formula: Polymer Coated Urea + Calcium Sulfate Dihydrate + Dairy Manure Digestate + Calcitic

Limestone + Sulfate of Potash + Anionic Polyacrylamide

CAS No.: N/A
Recommended Use: Fertilizer

Company Identification: Encap, LLC

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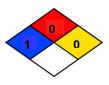
2. HAZARDS IDENTIFICATION

HMIS Classification

Health Hazard: 1
Chronic Health Hazard: Flammability: 0
Physical Hazards: 0
Personal Protection: E

HEALTH 1
FIRE 0
REACTIVITY 0
PPE E

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



(Safety glasses, gloves, and dust respirator)

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

GHS Hazard Categories
Oral toxicity hazard Category 5

Skin irritation Category 2
Eye irritation Category 2B
Respiratory irritation Category 3

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

Hazards Not Otherwise Classified: Unknown

OSHA Hazards

No known OSHA hazards

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.

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3. COMPOSITION

Chemical Identity: ESN Polymer Coated Urea 37.0%

Common Name: Urea

CAS No.: 57-13-6

Chemical Identity: Calcium sulfate dihydrate 24.0%

Common Name: Gypsum CAS No.: 10101-41-4

Chemical Identity: Digested Dairy Manure 18%

Common Name: Digested Dairy Manure

CAS No.: NA

Chemical Identity: Calcium Carbonate 15.0%

Common Name: Calcitic Limestone

CAS No.: 471-34-1

Chemical Identity: Potassium Sulfate 5.0%

Common Name: Sulfate of Potash

CAS No.: 7778-80-5

Chemical Identity: Anionic Polyacrylamide 0.8%

Common Name: Anionic Polyacrylamide

CAS No.: 9003-05-08

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

if needed.

INGESTION:

Symptoms: May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the 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
ESN Fertilizer	57-13-6	10 mg/m ³	10 mg/m ³
Digested dairy manure	No CAS No.	unknown	unknown
Calcitic limestone	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
Potassium Sulfate (sulfate of potash)	7778-80-5	unknown	unknown
Anionic Polyacrylamide	9003-05-08	unknown	unknown

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, blue-green granules, and irregular tan 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.

Thermal decomposition may produce CO, CO2, oxides of sulfur, oxides of calcium, oxides of **Hazardous Decomposition Products:**

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)

LD50 Oral - rat - 6,600 mg/kg (sulfate of potash)

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 Mobility

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

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

Acute LC50 - Fish - Bleak - Alburnus alburnus - 1,692.4 mg/L - 96 hr (Potassium Sulfate) Acute LC50 - other aquatic organisms - > 1,000 mg/L- 96 h (Potassium Sulfate)

Persistence and Degradability

Inherently biodegradable.

PBT and vPvB Assessment

Does not bioaccumulate.

Bioaccumulative Potential

Does not bioaccumulate.

Other Adverse Effects

Water contaminating.

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.

IMDO

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

Aug-19 Encap LLC staff

Updates or Revisions

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Update					
(U) or	Update or				
Revision	Revision				
(R)	Number	Date	Preparer		
U	1	11/4/2019	Encap LLC Staff		
U	2	10/16/2020	Encap LLC Staff	•	

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