



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Zinnia Flower Mix**
Formula: Zinnia Flower Seed + Calcium Sulfate Dihydrate + Dairy Manure Digestate + Calcium Carbonate + Anionic Polyacrylamide
CAS No.: N/A
Recommended Use: Seed

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

2. HAZARDS IDENTIFICATION

HMIS Classification

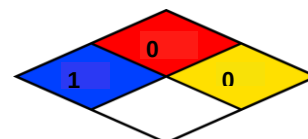
Health Hazard: 1
Chronic Health Hazard: -
Flammability: 0
Physical Hazards: 0
Personal Protection: E

HEALTH	1
FIRE	0
REACTIVITY	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:

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

GHS Hazard Categories

Skin irritation Category 2
Eye irritation Category 2B
Respiratory irritation Category 3
Oral toxicity hazard Category 5

Precautionary Statements:

P 102 Keep out of the reach of children
P 261 Avoid breathing dust.

Hazards Not Otherwise Classified:

Unknown

OSHA Hazards

Target organ effect.

Target Organs

Skin, eyes, and respiratory system.

Potential Immediate Health Effects

Inhalation: May cause respiratory tract irritation. Coughing, sneezing, and shortness of breath may occur following exposures in excess of exposure limits.

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation. Intestinal obstruction may occur if the material hardens.

3. COMPOSITION

Chemical Identity: Calcium sulfate dihydrate	41.8%
Common Name: Gypsum, calcium sulfate dihydrate	
CAS No.: 10101-41-4	
Chemical Identity: Dairy Manure Digestate	30.20%
Common Name: Dairy Manure Digestate	
CAS No.: N/A	
Chemical Identity: Calcium Carbonate (CaCO ₃)	25.13%
Common Name: Calcitic Limestone	
CAS No.: 471-34-1	
Chemical Identity: Zinnia Flower Seed	1.67%
Common Name: Zinnia Flower Seed	
CAS No.: N/A	
Chemical Identity: Anionic Polyacrylamide	1.2%
Common Name: Anionic Polyacrylamide	
CAS No.: 9003-05-08	

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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. Get medical attention if needed.

SKIN:

Symptoms: May cause skin irritation.

Rinse skin with plenty of water. Get medical attention if needed.

INHALATION:

Symptoms: May cause respiratory tract irritation. Coughing, sneezing, and shortness of breath may occur following exposures in excess of exposure limits.

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

INGESTION:

Symptoms: May be harmful if swallowed. May cause gastrointestinal tract irritation. Intestinal obstruction may occur if the material hardens.

Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if needed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media

None known.

Special Protective Equipment for Fire-Fighters

Self-contained breathing apparatus and full protective clothing. Note: In dry form this product may be combustible. Aqueous solutions may render surfaces slippery.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation.

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.

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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

	CAS No.	ACGIH TLV	OSHA/PEL
Zinnia Flower Seed	No CAS No.	none	none
Dairy manure digestate	No CAS No.	unknown	unknown
Calcium carbonate (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
Anionic Polyacrylamide	9003-05-08	none	none

Engineering Controls

Local exhaust ventilation recommended. Running water should be available in case material gets in eyes. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Wash clothing before reusing.

Personal Protective Equipment

Respiratory Protection

A NIOSH (US) or CEN (EU) approved particulate respirator is recommended where total dust concentration exceeds 10 mg/m³.

Hand Protection

None required for normal use. If prolonged or repeated use irritates skin, use rubber, neoprene, vinyl, or nitrile gloves.

Skin and Body Protection

None required, long sleeves recommended.

Eye Protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Mixture of brown granules, seed, and whitish granules
 Odor: Woody, mineral
 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: None

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.

Conditions to Avoid: Large amounts of airborne dust.

Hazardous Decomposition Products: Thermal decomposition may produce: calcium oxide, nitrogen oxides, carbon oxides, sulfur oxides, and hydrogen cyanide.

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11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation or contact with eyes.

Potential Health Effects

Inhalation: May cause respiratory tract irritation. Coughing, sneezing, and shortness of breath may occur following exposures in excess of exposure limits.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation. Intestinal obstruction may occur if the material hardens.

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Acute Toxicity

No data available.

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

No data available

Mobility

Water contaminating.

Persistence and Degradability

Inherently biodegradable.

PBT and vPvB Assessment

Does not bioaccumulate.

Bioaccumulative Potential

Does not bioaccumulate.

Other Adverse Effects

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

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. Do not re-use empty containers.

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.

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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

Calcium carbonate 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

Calcium carbonate 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.

New Jersey Right To Know

Calcium carbonate and gypsum are listed by the New Jersey 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**

Jun-20 Encap LLC staff

Updates or Revisions

Update (U) or Revision (R)	Update or Revision Number	Date	Preparer
U	1	10/5/2020	Encap LLC staff