

# **Safety Data Sheet**

## PRODUCT AND COMPANY IDENTIFICATIO

Product Name: Perennial Flower Mix

Formula: Perennial Flower Seed + Calcium Sulfate Dihydrate + Dairy Manure Digestate +

Calcium Carbonate + Anionic Polyacrylamide

Recommended Use: Seed

Company Identification: Encap, LLC

320 N Broadway, Suite 340 Green Bay, WI 54303 Phone: (877) 405-5050

# **HAZARDS IDENTIFICATION**

#### **HMIS Classification**

Health Hazard: Chronic Health Hazard: Flammability: 0 Physical Hazards: 0 Personal Protection: F (Safety glasses, gloves, and dust respirator)

**HEALTH** FIRE 0 REACTIVITY 0 PPF

Reactivity Hazard: Special Hazard:

**NFPA Rating** 

Health Hazard:

Fire:

0

0

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

P 261 Unknown Keep out of the reach of children

Avoid breathing dust.

**OSHA Hazards** 

Target organ effect.

# **Target Organs**

Skin, eyes, and respiratory system.

**Hazards Not Otherwise Classified:** 

# **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 30.1%

Common Name: Dairy Manure Digestate

CAS No.: N/A

Chemical Identity: Calcium Carbonate (CaCO<sub>3</sub>) 25.04%

Common Name: Calcitic Limestone

CAS No.: 471-34-1

Chemical Identity: Perennial Flower Seed 1.86%

Common Name: Perennial Flower Seed

CAS No.: N/A

Chemical Identity: Anionic Polyacrylamide 1.2%

Common Name: Anionic Polyacrylamide

CAS No.: 9003-05-08

October 2020 1 of 5

## 4. FIRST AID MEASURES

#### FYF.

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.

October 2020 2 of 5

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Exposure Limits**

**ACGIH TLV** OSHA/PEL CAS No. Perennial 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<sup>3</sup> resp. 5 mg/m<sup>3</sup> resp. Calcium Sulfate Dihydrate (Gypsum) 10101-41-4 10 mg/m<sup>3</sup> 15 mg/m<sup>3</sup> 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/m<sup>3</sup>.

#### 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.

October 2020 3 of 5

# 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

#### 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.

# 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 reuse 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.

October 2020 4 of 5

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

October 2020 5 of 5