

SAFETY DATA SHEET

Grease, Bison Seed Coat

Product ID:

Revised: 08-23-2023

Replaces: 02-08-2021

1. IDENTIFICATION

Product Identifier: Bison Seed Coat
Other Identifiers: MIXTURE
CAS Number: Bison Compost Seed Coat
Recommended Use: No data available.
Restrictions on Use:

Fractal Growth LLC
1301 Lucas Ave
Loveland, CO 80537
(970) 568-2829

EMERGENCY RESPONSE NUMBERS: 24 Hour
Emergency #: (970)568-2829
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION

GHS Classification(s): This product is not classified as defined by OSHA 29 CFR 1910.1200.

GHS Label Elements: None.

Hazards Not Otherwise Classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures:

Chemical or Common Name/Synonyms	CAS Number	% by Wt.
Bison Compost Fines	Proprietary	75%
Calcium Bentonite Clay		25%

4. FIRST-AID MEASURES

Description of Necessary Measures:

Eye Contact: If in eyes: Immediately flush eyes thoroughly with plenty of water. Tilt head to avoid contaminating unaffected eye. If irritation occurs, get medical attention. Remove contact lenses if worn.

Skin Contact: If on skin: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water.

Inhalation: If inhaled: Remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation occurs.

Ingestion: If swallowed: Wash out mouth with water provided person is conscious. Call a physician immediately. Give large amounts of water to drink.

Most Important Symptoms/Effects, Acute and Delayed:

Eye Contact: May cause mild irritation. May cause: irritation.

Skin Contact: No hazard expected under normal use. Prolonged, repeated, or excessive contact may cause: mild irritation.

Skin Absorption: No data available.

BISON SEED COAT

Product ID:

Inhalation: No evidence of adverse effects based on available information. Excessive amounts of mist may irritate: respiratory tract.

Ingestion: No evidence of adverse effects based on available information. May cause: gastrointestinal disturbances. nausea.

Indication of Immediate Medical Attention and Special Treatment Needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Dry chemical. Foam. Carbon dioxide.

Specific Hazards Arising from the Chemical:

Fire and Explosion Hazards: Material will burn in fire, releasing toxic vapors.

Hazardous Combustion Products: Toxic fumes.

Special Protective Equipment and Precautions for Fire-Fighters: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-Approved self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures: Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8.

Methods and Materials for Containment and Clean Up: Absorb spill with inert material and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. CAUTION: Spilled material may be slippery.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Wash thoroughly after handling. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Keep containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

Component	Limits
Proprietary	20 mppcf TWA; (80)/(% SiO ₂) mg/m ³ TWA; Respirable Dust: 20 mppcf

ACGIH Exposure Guidelines:

Component	Limits
Proprietary	10 mg/m ³ TWA

Note:

* Recommend exposure limits for Particulates Not Otherwise Regulated/Particulates (Insoluble or Poorly Soluble) Not Otherwise Specified: 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Fraction)(OSHA); 3 mg/m³ (Respirable particles), 10 mg/m³ (Inhalable particles)(ACGIH). * 20 millions of particles per cubic foot of air, 0.8 mg/m³ (TWA); (Z-3). The value is calculated from a specified equation using a value of 100%, Lower values of % will give higher exposure limits. See regulation for specific equation.

Engineering Controls: General room ventilation is required. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces.

Individual Protection Measures:

BISON SEED COAT

Product ID:

Eye/Face Protection: Wear safety glasses with side shields while handling this product. Wear additional eye protection such as chemical safety goggles when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

Skin Protection: Material is not considered a skin contact hazard; however, it is advised that personnel minimize skin contact. Protective gloves: Impervious.

Respiratory Protection: None required under normal use. If mist or spray is present, wear: If vapors, mists or aerosols are generated, wear: NIOSH-Approved respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower.

General Hygiene Conditions: Handle in accordance with good industrial hygiene and safety practice. Wash with soap and water before meal times and at the end of each work shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder.

Color: Brown. Gray. White. Black.

Odor: Nature Dirt.

Odor Threshold: N.D.

pH: N.D.

Freezing Point (deg. F): N.D.

Melting Point (deg. F): N.D.

Initial Boiling Point or Boiling Range: N.D.

Flash Point: > N.A.

Flash Point Method: N.A.

Evaporation Rate (nBuAc = 1): N.D. **Flammability**

(solid, gas): N.D.

Lower Explosion Limit: N.A.

Upper Explosion Limit: N.A.

Vapor Pressure (mm Hg): N.D.

Vapor Density (air=1): N.D.

Specific Gravity or Relative Density: N.A.

Solubility in Water: Not miscible or difficult to mix.

Partition Coefficient (n-octanol/water): N.D.

Autoignition: N.A.

Temperature: No Data

Decomposition Temperature: N.D.

Viscosity: N.D.

% Volatile (wt%): N.D.

VOC (wt%): N.D.

VOC (lbs/gal): N.D.

Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid: Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides. Toxic vapors.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

Symptoms/Effects: Acute, Delayed and Chronic:

Eye Contact: May cause mild irritation. May cause: irritation.

Skin Contact: No hazard expected under normal use. Prolonged, repeated, or excessive contact may cause: mild irritation.

Skin Absorption: No data available.

Inhalation: No evidence of adverse effects based on available information. Excessive amounts of mist may irritate: respiratory tract.

Ingestion: No evidence of adverse effects based on available information. May cause: gastrointestinal disturbances. nausea.

Numerical Measures of Toxicity:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary	Rat: > 5000 mg/kg	Rabbit: > 5000 mg/kg	No Data

Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

Medical Conditions Aggravated by Exposure to Product: None known.

Other: None known.

For detailed toxicological information on this product, contact the address in Section 1 of this MSDS.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: Due to mechanical actions of the product (e.g. agglutinations), damages may occur. Avoid release to the environment.

Chemical Fate Information: Product is biodegradable.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: N.A.

Disposal Method: Dispose of in accordance with all local, state and federal regulations. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Proper Shipping Name: Not regulated by the DOT.

15. REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category Hazards: Please see Section 2 of this SDS.

Regulated Components:	CAS	CERCLA	SARA	SARA	U.S.	WI	Prop
Component	Number	RQ	EHS	313	HAP	HAP	65

BISON SEED COAT

Product ID:

No components found.

***Prop 65 - May Contain the Following Trace Components:**

None Known

16. OTHER INFORMATION

Hazard Rating System

Health: 0

Flammability: 0

Reactivity: 0

* = Chronic Health Hazard

NFPA Rating System

Health: 0

Flammability: 0

Reactivity: 0

Special Hazard: None

SDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

SDS Prepared by: csh

Reason for Revision: Change(s) made in Section 9.

Revised: 08-23-2023

Replaces: 02-08-2021

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Fractal Growth LLC assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.