

## SECTION 1. IDENTIFICATION

**Product Form:** Coffee Pellet  
**Trade Name:** JavaEarth™  
**Recommended Use:** Fertilizer  
**Restriction on Use:** Not for human or animal consumption  
**Manufacturer:** Sustainable Resources Group, LLC, 132 Veterans Lane, Unit A, Doylestown, PA 18901  
**Emergency Phone Number:** 610-840-9200ds

## SECTION 2. HAZARDS IDENTIFICATION

### Classification of Substance or Mixture

**GHS-US classification** Not classified

### Label Elements

**GHS-US Labeling** No labeling applicable

### Other Hazards

Other hazard which do not result in classification: Coffee and starch dust is not expected in coffee pellet form. If user activity generates coffee and/or starch dust, it may cause irritation of the eye, skin, or respiratory tract.

**Unknown Acute Toxicity (GHS US)** Not applicable

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%
Spent Coffee Grounds	---	90% - 100%
Starch	9005-25-8	0% - 10%

Concentrations are expressed in % volume/volume

## SECTION 4. FIRST-AID MEASURES

**General** Coffee pellets are considered a benign product for most people. However, individuals with a propensity for allergic reactions may experience reactions and should contact their physician to establish the best remedial action to take if reaction occurs.

**Inhalation** Coffee pellets are unlikely to be inhaled. Remove to fresh air if respiratory symptoms are experienced. Seek medical help if persistent irritation, severe coughing, breathing difficulty or other serious symptoms occur.

**Skin Contact** Coffee pellets are not normally irritating to the skin. Wash with soap. If skin irritation occurs, get medical attention or advice.

**Eye Contact** Irrigate immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical help.

**Ingestion** If swallowed, rinse mouth and drink plenty of water. Call a doctor or Poison Control immediately.

**Most Important Symptoms and** Not expected to present a significant hazard under anticipated conditions of

**Effects, Acute and Delayed** normal use. If user operations generate coffee or starch dust, it may cause mechanical irritation of the eyes, skin, and respiratory system. Dust can cause physical obstructions in the nasal passages, resulting in dryness of nose, dry cough, and sneezing.

**Immediate Medical Attention and Special Treatment** Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Apply water or all-purpose-type foams by manufacturers' recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

##### Unsuitable Extinguishing Media

as this could lead to a dust explosion.

High pressure water jet and CO<sub>2</sub> blast. Do not disperse in air,

#### Specific Hazards Arising from the Product

Coffee pellets are a fuel and by nature are prone to catch fire when exposed to heat or fire. Product as shipped is not defined as combustible dust. Incomplete combustion may form carbon monoxide.

#### Reactivity

None known under normal conditions of use.

#### Autoignition Temperature:

Variable [typically 250-260 °C]

#### Special Protective Equipment and Precautions for Fire-Fighters:

No special equipment anticipated. Beware of potential combustible dust explosion hazard.

#### Unusual Fire and Explosion Hazards:

Not expected to present a significant hazard under anticipated conditions of normal use. If user operations generate coffee or starch dust, it may pose (depending on moisture content, particle diameter and concentration) a flash fire or deflagration hazard. If suspended in air in an enclosure or container and ignited, an explosion may occur due to the development of internal pressure causing rupture. An airborne concentration of 50-100 grams of dust per cubic meter of air is often used as the Minimum Explosible Concentration (MEC) for coffee and starch dusts. Conduct regular housekeeping inspections and cleaning to prevent excessive dust accumulations. Reference NFPA 652 "Standard on the Fundamentals of Combustible Dust".

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions:** Ensure adequate ventilation.

**Emergency Precautions:** No special emergency procedures required

**Environmental Precautions:** No special environmental precautions required

#### Methods and Material for Containment and Cleaning Up:

Sweep or vacuum up for recovery and disposal. Avoid creating dusty conditions whenever feasible. Maintain good housekeeping to avoid accumulation of coffee and starch dust on exposed surfaces. Use approved filtering facepiece respirator ("dust mask") or higher levels of respiratory protection as indicated and goggles where ventilation is not possible and exposure limits may be exceeded.

### SECTION 7. HANDLING AND STORAGE

- Precautions for Safe Handling:** Protect coffee pellets from contact with water and moisture. Store in well-ventilated, cool, dry place away from open flame.
- Conditions for Sale Storage:** Protect coffee pellets from exposure to ignition sources which may set off a fire. Store in well-ventilated, cool, dry place away from open flame.
- Incompatibilities:** Oxidizer. Excessive moisture. Sources of ignition.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### CONTROL PARAMETERS

Occupational Exposure Limits Values			
NAME	Type	Spent Coffee Grounds	Starch
OSHA PEL	Respirable Dust	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
	Total Dust	15 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
ACGIH TLV	Respirable Particulates	3 mg/m <sup>3</sup>	-
	Inhalable Particulates	10 mg/m <sup>3</sup>	-
NIOSH REL	Respirable Dust	-	5 mg/m <sup>3</sup>
	Total Dust	-	10 mg/m <sup>3</sup>

\*Coffee dust is regulated by OSHA as “Particulates Not Otherwise Regulated” (PNOR), which is also referred to as “nuisance dust”.

#### Exposure Controls:

**Personal Protective Equipment:** Not normally required when handling coffee pellets.

**Hand Protection:** Cloth, canvas, or leather gloves are recommended to prevent direct contact and to minimize potential slivers and mechanical irritation from handling product.

**Eye Protection:** Approved goggles or tight fitting safety glasses are recommended when excessive exposures to dust may occur (e.g. during clean up) and when eye irritation may occur.

**Skin and Body Protection:** Wear protective clothing.

**Respiratory Protection:** Avoid actions that cause coffee and starch dust exposure. Work in well-ventilated area. Use filtering facepiece respirator (“dust mask”) tested and approved under appropriate government standards such as NIOSH (US), CSA (Canada), CEN (EU), or JIS (Japan) where exposure limits may be exceeded or symptom relief. Use respiratory protection in accordance with jurisdictional regulatory requirements similar to the OSHA respiratory protection standard 29CFR 1910.134.

**Other Information:** Follow good hygienic and housekeeping practices. Clean up areas where coffee dust settles to avoid excessive accumulation of this combustible material. Minimize compressed air blowdown or other practices that generate high airborne-dust concentrations.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Light brown to dark brown substance

Odor	Light coffee odor to no odor
Odor Threshold	Not applicable
pH	4-6
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	Not applicable
Evaporation Rate	No data available.
Flammability (solid, gas)	Flammable
Upper/Lower Explosive Limits	90 to 100 grams of dust per cubic meter of air
Vapor Pressure	Not applicable
Vapor Density (air=1)	Not applicable
Relative Density (water=1)	No data available
Density	39 lbs/cu ft
Solubility	No data available
Partition Coefficient, n-Octanol/Water (Log Kow)	No data available
Auto-ignition Temperature	250-260 °C
Decomposition Temperature	No data available
Viscosity	Not applicable

#### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None known
<b>Chemical Stability</b>	Stable at normal conditions
<b>Possibility of Hazardous Reactions</b>	Will Not Occur
<b>Conditions to Avoid</b>	Avoid all sources of ignition, dust generation, and contact with wet or moist environments.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition products are primarily carbon monoxide, carbon dioxide, and methane.
<b>Sensitivity of Static Discharge:</b>	Airborne coffee and starch dust may be ignited by a static discharge depending on the airborne concentrations, particle size and moisture content.

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Likely Routes of Exposure:

☒ Inhalation   ☒ Skin contact   ☒ Eye contact   ☐ Ingestion

##### Acute Toxicity:

**LC50 (Inhalation) (4/rats)** There is no data available

**LD50 (oral)** There is no data available

**LD50 (dermal)** There is no data available

**Skin Corrosion/Irritation:** There is no data available, pH: 4-6

**Serious Eye Damage/Irritation:** There is no data available, pH: 4-6

**Respiratory and/or Skin Sensitization:** There is no data available

**STOT (Specific Target Organ Toxicity)**

**Single Exposure:** There is no data available

**Repeated Exposure:** There is no data available

**Carcinogenicity:** There is no data available

**Reproductive Toxicity**

**Development of Offspring:** There is no data available

**Sexual Function and Fertility:** There is no data available

**Effects on or Via Lactation:** There is no data available

**Germ Cell Mutagenicity:** There is no data available

**Additional Information:** There is no data available

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No known significant effects or critical hazards.

**Persistence and Degradability:** Inherently biodegradable.

**Bioaccumulation Potential:** No known significant effects or critical hazards.

**Mobility in Soil:** No known significant effects or critical hazards.

**Other Adverse Effects:** No known significant effects or critical hazards.

## SECTION 13. DISPOSAL CONSIDERATIONS

The waste of this product is not defined as hazardous. Dispose of all waste in accordance with the regulations of the environmental authority having jurisdiction.

## SECTION 14. TRASPORT INFORMATION

Not regulated under Canadian Transportation of Dangerous Goods (TDG) regulations.

Not regulated under US Department of Transportation (DOT) Regulations.

Not regulated under International Maritime Dangerous Goods (IMDG) Regulations.

Not regulated under International Air Dangerous Goods (ICAO-TI / IATA-DGR) Regulations.

**Environmental Hazards:** None

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**Special precautions for Transport:** None

## SECTION 15. REGULATORY INFORMATION

This product has been classified and the SDS has been developed according to the Hazardous Products Regulation.

### United States

#### EPCRA – SARA Title III Classification

Section 302 Extremely Hazardous Substances: Not applicable

Section 311/312 Hazard Classes: Not applicable

Section 313 Toxic Chemicals: Not applicable

**International regulations**

<b>CANANDA</b>	No additional information available
<b>EU-Regulations</b>	No additional information available
<b>National Regulations</b>	No additional information available

**CERCLA Regulatory**

Not applicable

**RCRA Hazardous Waste Classification (40 CFR 261)**

Not applicable

**Toxic Substances Control Act (TSCA)**

All ingredients are either listed on the TSCA Inventory or are exempt from listing

**OSHA:** Coffee products are not hazardous under the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, coffee dust generated by grinding and drying activities is considered hazardous.

**California Proposition 65 Components**

These products do not contain any chemical known to the State of California to cause cancer, birth defects.

**SECTION 16. OTHER INFORMATION**

**Additional Information:**

The information above is accurate to the best of our knowledge as at the date of preparation of the SDS. However, such information is not to be interpreted as representing a warranty or guarantee as to its accuracy or completeness. No warranty of any kind is given or implied under the terms hereof, and SUSTAINABLE RESOURCES GROUP, LLC will not be liable for any damages, losses, injuries or consequential damages which may result, directly and/or indirectly, from the uses or reliance on any information contained. The users must do their own research as for the pertinence of the information for specific use. For more information: [www.sustainableresourcesgroup.com](http://www.sustainableresourcesgroup.com).

**Date of Preparation:** 2021-08-20

<b>Glossary of Abbreviations</b>
<b>ACGIH:</b> American Conference of Governmental Industrial Hygienists
<b>CAS:</b> Chemical Abstracts Service (Registration number)
<b>CERCLA:</b> Comprehensive Environmental Response, Compensation, and Liability Act
<b>DOT:</b> Department of Transportation
<b>GHS:</b> Globally Harmonized System
<b>IBC:</b> International Bulk Container
<b>OSHA:</b> Occupational Safety and Health Administration
<b>PEL:</b> Permissible Exposure Limit
<b>RCRA:</b> Resource Conservation and Recovery Act
<b>SARA:</b> Superfund Amendments and Reauthorization Act
<b>SDS:</b> Safety Data Sheet
<b>TLV:</b> Threshold Limit Value
<b>TDG:</b> Transportation of Dangerous Goods

