

# SAFETY DATA SHEET

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product Name:** Rainbow Brownstone  
**Product Form:** Mixture  
**1.2 Product Use:** Pigments for Cement and Gypsum Products  
**1.3 Supplier/Manufacturer:** Empire Blended Products Inc.  
250 Hickory Lane  
Bayville, NJ 08721  
**Phone Number:** (732) 269-4949  
**1.4 Emergency Number:** CHEMTREC (800) 424-9300

## Section 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Chemical:

**Hazard Class:**

Specific target organ toxicity (Repeated exposure) – Category 2

### 2.2 Label Elements:

**Hazard Pictogram:**



**Signal Word:** Warning

**Hazard Statement:** May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled,

**Prevention:** Do not breathe dust.

**Response:** Get medical attention if you feel unwell.

**Storage:** Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national, and international regulations.

### 2.3 Additional Information:

**Hazards not otherwise classified:** N/A

2.8% of the mixture consists of ingredient(s) of unknown toxicity.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Mixtures:

<u>Ingredient</u>	<u>CAS #</u>	<u>Wt. %</u>
Graphite, natural	7782-42-5	< 5 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section. Occupational exposure limits, if available, are listed in section 8.

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## Section 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

- Eye:** In case of contact, immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Skin:** In case of contact, Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
- Ingestion:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### 4.2 Most Important Symptoms and Effects, both Acute and Delayed:

- Eye:** May cause mechanical irritation (abrasion).
- Skin:** May cause mechanical irritation (abrasion).
- Inhalation:** No known significant effects or critical hazards.
- Ingestion:** No known significant effects or critical hazards.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed:

- Note to Physicians:** Treat symptomatically. No specific treatment.
- Specific Treatments:** No special measures required

## Section 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media:

- Suitable Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable Extinguishing Media:** None known.

### 5.2 Special Hazards Arising From the Chemical: No specific fire or explosion hazard.

- Products of Decomposition:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides.

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**5.3 Special Protective Equipment and Precautions for Fire Fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**6.2 Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3 Methods and Materials for Containment/Cleanup:** Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

## Section 7: HANDLING AND STORAGE

**7.1 Precautions for Safe Handling:** Do not breathe dust. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protective equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed.

**7.2 Conditions for Safe Storage, Including Any Incompatibilities:** Do not store near sources of heat (furnaces, kilns, boilers, etc.). Exposure to excessive heat may cause this product to become unstable (slowly auto-oxidize) which generates additional heat. Under certain circumstances this heat generation may be sufficient to cause combustible materials to ignite. Do not store near strong oxidizers, sources of heat, or near flammable or combustible materials. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control Parameters:

#### Exposure Guidelines:

Ingredient	ACGIH TLV - TWA (respirable fraction)	OSHA PEL - TWA
Graphite, natural	2 mg/m <sup>3</sup> 8 hours	15 mppcf 8 hours

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If this product contains ingredient with exposure limits, personal, workplace, atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

## 8.2 Exposure Controls:

**Engineering Controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminate below any recommended or statutory limits.

## 8.3 Individual Protective Measures:

### Personal Protective Equipment:

**Eye/Face Protection:** If contact with product is possible, wear safety glasses with side shields.

**Skin Protection:** Wear suitable protective clothing and gloves. Suitable protective footwear.

**Respiratory Protection:** The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved, air-purifying particulate respirator with N-95 filters.

**General Hygiene Considerations:** 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties:

**Appearance:** Powder

**Color:** Brown

**Odor:** Odorless

**Odor Threshold:** N/A

**Physical State:** Solid

**pH:** 4 to 8

**Viscosity:** N/A

**Freezing Point:** N/A

**Boiling Point:** N/A

**Melting Point:** >1000 °C (>1832 °F)

**Flash Point:** N/A

**Evaporation Rate:** N/A

**Lower Flammability Limit:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

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**Relative Density:** 4 to 5

**Bulk Density:** 300 to 1000 kg/m<sup>3</sup>

**Lower Explosion Limit:** N/A

**Upper Explosion Limit:** N/A

**Solubility in Water:** Insoluble in cold water

**Coefficient of Water/Oil Distribution:** N/A

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

## Section 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical Stability:</b>	This product is stable.
<b>10.3 Possibility of Hazardous Reactions:</b>	No hazardous reactions known under conditions of normal storage and use.
<b>10.4 Conditions to Avoid:</b>	Excessive temperatures. At temperature greater than 176 °F (80 °C), this product may become unstable and slowly auto-oxidize into Fe <sub>2</sub> O <sub>3</sub> which generates additional heat. Under certain conditions this heat may be sufficient to cause combustible materials to ignite.
<b>10.5 Incompatible Materials:</b>	No specific data.
<b>10.6 Hazardous Decomposition Products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

**Likely routes of exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** May cause mechanical irritation (abrasion).

**Skin:** May cause mechanical irritation (abrasion).

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

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

### 11.2 Delayed, Immediate and Chronic Effects of Short- and Long- Term Exposure:

**Short Term Exposure:** N/A

**Long Term Exposure:**

**Potential Delayed Effects – N/A**

**General –** May cause damage to organs through prolonged or repeated exposure if inhaled. Long term exposure to high concentrations of dust containing iron oxide can cause a benign condition termed “pulmonary siderosis”. This condition is not associated with any physical impairment of lung function. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Carcinogenicity –** No known significant effects or critical hazards.

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**Mutagenicity** – No known significant effects or critical hazards.

**Teratogenicity** – No known significant effects or critical hazards.

**Developmental Effects** – No known significant effects or critical hazards.

**Fertility Effects** – No known significant effects or critical hazards.

**STOT – Repeated Exposure** – Graphite, natural = Category 2, targets lungs through inhalation.

## Section 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:** N/A

**12.2 Persistence and Degradability:** N/A

**12.3 Bioaccumulative Potential:** N/A

**12.4 Mobility in Soil:** N/A

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

## Section 13: DIPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

**Disposal Method:** The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental control laws.

**RCRA Classification:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24).

## Section 14: TRANSPORTATION INFORMATION

**14.1 DOT (US):** Not regulated

**14.2 IMDG:** Not regulated

**14.3 IATA:** Not regulated

## Section 15: REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislations Specific for the Chemical:

#### SARA Title III:

<b>Ingredient</b>	<b>Section 302</b>	<b>Section 311/312</b>	<b>CERCLA</b>	<b>Section 313</b>
Rainbow Brownstone	None	Delayed Chronic Health Hazard	None	None

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**US Toxic Substance Control Act:** Listed on the TSCA Inventory

## STATE REGULATIONS:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<b>Ingredient</b>	<b>CAS#</b>	<b>State Code</b>	<b>Concentration (%)</b>
Iron (III) Oxide	1309-37-1	MA- S, NJ- HS, PA- RTK HS	51-57 %
Graphite, natural	7782-42-5	MA- S, NJ- HS, PA- RTK HS	1-3 %
C.I. Pigment Black 11	1317-61-9		40-46 %
Impurities			1-3 %

Massachusetts Substances: MA- S

Massachusetts Extraordinary Hazardous Substances: MA- Extra HS

New Jersey Hazardous Substances: NJ- HS

Pennsylvania RTK Hazardous Substances: PA- RTK HS

Pennsylvania Special Hazardous Substances: PA- Special HS

**California Prop. 65:** Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL). To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects, or other reproductive harm.

## HMIS- Hazardous Material Information System:

Health: 1

Flammability: 0

Physical: 0

## NFPA- National Fire Protection Association:

Health: 1

Fire: 0

Reactivity: 0

## Hazard Rating:

0 = minimal    1 = slight    2 = moderate    3 = severe    4 = extreme

## Section 16: OTHER INFORMATION

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