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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: Ebony Grit USA **MSDS #:** 398-8

CHEMICAL NAME AND SYNONYMS: Granulated Industrial Slag

MATERIAL IDENTIFICATION AND USE: This material is a shiny, black, granular aggregate.

MANUFACTURER AND/OR SUPPLIER:

Opta Minerals USA
3306 Peterson Street
Norfolk, Virginia
23509-2415
Telephone: (757) 855-0155
Emergency: (905) 689-6661, Ext. 222

SECTION 2 – INFORMATION ON COMPONENTS

Primarily composed of ferrosilicate material (Fayalite - Fe_2SiO_4) and metal oxides such as magnetite (Fe_2O_3), with other metals substituting for iron in the magnetite structure. The approximate element composition of this material is as follows:

Ingredients	Chemical formula by weight	Typical %	CAS #
Iron Oxide	Fe_2O_3	50 - 60	1309-37-1
Amorphous Silica	SiO_2 (total)	32 - 37	60676-86-0
Aluminum Oxide	Al_2O_3	3 - 6	1344-28-1
Calcium Oxide	CaO	1 - 3	1305-78-8
Magnesium Oxide	MgO	1 - 2	1309-48-4
Zinc	Zn	<1	1314-13-2
Cyrstalline Silica	SiO_2	0.3	14808-60-7
Arsenic	As	<0.1	7440-38-2
Beryllium	Be	<0.001	7440-41-7
Cadmium	Cd	<0.001	7440-43-9
Lead	Pb	<0.05	7439-92-1

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview

POTENTIAL HEALTH EFFECTS:

INHALATION: This material does not normally present an inhalation hazard due to the large particle size and physical properties.

EYE CONTACT: High levels of dust are not likely to occur from use and handling this material. May cause eye irritation. Direct contact may cause irritation, redness, tearing, and blurred vision. Prolonged contact may cause irritation and conjunctivitis.

TOXICITY: Non Toxic

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

EYE CONTACT: Flush the eye(s) with lukewarm water until the particles have been removed. If irritation persists, obtain medical attention.

SKIN CONTACT: Wash with soap and water.

INHALATION: Acute exposure: Remove to fresh air. If not breathing, give artificial respiration Administer oxygen if breathing is difficult. Get medical attention.

INGESTION: Rare in industry. Induce vomiting. IF UNCONSCIOUS, DO NOT INDUCE VOMITING OR GIVE ANY LIQUID. Seek medical attention.

SECTION 5 – FIREFIGHTING METHODS

Flashpoint and Method : Non-Flammable
Flammable Limits : Non-Flammable
Autoignition Temperature : N/A
Firefighting Instructions : Use any means suitable for extinguishing surrounding fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE TO THE ENVIRONMENT: In case of leak in powdery form, collect quickly with care.

SECTION 7 - HANDLING AND STORAGE

This material can be stored in piles exposed to the outside environment.

SECTION 8 - EXPOSURE CONTROL & PERSONAL PROTECTION

HAND PROTECTION: Protective Gloves

EYE PROTECTION: Protective glasses of goggle type

SKIN PROTECTION: Protective wear

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Black Crystal Grain
Specific Gravity: Approx. 3.5
Solubility in Water: Not Soluble
Solubility in Others: Soluble in Acid
Boiling Point: N/A
Melting Point: Approx. 1150 °C
pH: ~5.88

SECTION 10 – STABILITY AND REACTIVITY

Self Reactivity/Explosion Properties: N/A
Dust Explosion Properties: N/A
Stability/Reactivity: Oxidized Material

SECTION 11 – MSDS PREPARATION AND TOXICOLOGICAL INFORMATION

Acute Toxicity: N/A
Subacute Toxicity: N/A
Chronic Toxicity: N/A
Carcinogenicity: N/A
Variability: N/A
Reproduction Toxicity: N/A
Mutagenicity: N/A
Others: N/A
Skin Corrosiveness: N/A
Irritability: N/A
Sensitization: N/A

SECTION 12 – ECOLOGICAL INFORMATION

Decomposibility: Will not decompose
Bioaccumulation: N/A

SECTION 13 – REQUIRED TRANSPORT INFORMATION

Suitable for all modes of transportation

SECTION 14 – OTHER INFORMATION

The above information is believed to be accurate and represents the best information currently available to us. The matters to be attended to are intended for normal handling. In case of special handling, applicable safety measure for the application and usage should be done and use it. However, we make no warranty expressed or implied with respect to such information and we assume no liability resulting from its use.

The MSDS was prepared from information provided by raw material suppliers to Opta Minerals.

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CONTACT: Operations Supervisor
Quality Control Coordinator

For non-emergency questions, please contact your sales person.
General inquiries may be directed to 905-689-6661.