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## MATERIAL SAFETY DATA SHEET

### SECTION I. PRODUCT IDENTIFICATION

<b>Product Name:</b> <i>Black Magic</i> <sup>®</sup>	<b>Product Type:</b>	Abrasive Blasting Media
<b>Product Source:</b>	Slag from coal combustion	<b>Chemical Family:</b> Amorphous Glassy Slag
<b>Chemtrec Phone No:</b>	800-424-9300	<b>DOT Shipping Name:</b> Non-regulated Material
<b>DOT Hazard Class:</b>	Non-regulated Material	<b>Date MSDS Prepared:</b> December, 1992 Reviewed and revised February, 2012

### SECTION II. PRODUCT INGREDIENTS AND HAZARD INFORMATION

**BLACK MAGIC**<sup>®</sup> is a 99-100% slag product produced from the combustion of coal in the generation of electricity. The material meets the definition of a Type I Inorganic Material under the Military Specification Number MIL-A-22262A(SH), dated 6 Feb 87. Typical chemical analysis of the product is:

Element	Concentration %	Element	Concentration %
*Silica, Fumed Amorphous	20	Sodium	2
Aluminum	15	Titanium	< 0.2
Iron	7	Strontium	< 0.2
Calcium	3	Barium	< 0.1
Silica, Crystalline	< 0.1	Beryllium	0.00063

\*Contains <0.1 percent crystalline silica and is not a carcinogen

The Threshold Limit Value (TLV) is 10 mg/m<sup>3</sup>. The TLV for **BLACK MAGIC**<sup>®</sup> is the American Conference of Governmental Industrial Hygienist's TLV for Particulates Not Otherwise Specified (insoluble or poorly soluble). Partial size analysis of unused **BLACK MAGIC**<sup>®</sup> shows no respirable dust fraction.

**USER CAUTION!:** Normal usage of **BLACK MAGIC**<sup>®</sup> as an abrasive blasting media may cause mechanical breakdown of the product with the potential of producing significant amounts of respirable (< 10 micron) dusts. In addition, the potential for exceeding the TLV and Permissible Exposure Limit (PEL) of a toxic material must be evaluated depending on the nature of the surface treated. For example, using **BLACK MAGIC**<sup>®</sup> for abrasive blasting of a surface covered with lead based paint can pose a risk for exceeding the TLV or PEL for lead.

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### SECTION III. PHYSICAL DATA

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<b>Boiling Point(F):</b>	> 2000	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	2.855
<b>Solubility in Water:</b>	< 0.1%	<b>Percent Volatile by Volume:</b>	< 0.1%
<b>Appearance:</b>	Black solid, glassy slag		

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### SECTION IV. FIRE AND EXPLOSION DATA

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**BLACK MAGIC®** will not burn. It has no flash point, no upper or lower flammable limits, and no autoignition temperature. No special fire fighting procedures are required. **BLACK MAGIC®** presents no unusual fire or explosion hazard. Since **BLACK MAGIC®** does not burn, use the appropriate fire extinguishing media for the other materials involved.

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### SECTION V. HEALTH HAZARD DATA

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Amorphous glassy slag materials such as **BLACK MAGIC®** are not listed as a suspected carcinogen by the NTP Program or the IARC Program. The Threshold Limit Value (TLV) for **BLACK MAGIC®** is 10 mg/m<sup>3</sup>, the value adopted by the ACGIH for particulates not otherwise specified (insoluble or poorly soluble). Users should be familiar with the Caution Statement given in SECTION II of this document.

Repeated exposure to high levels of the dust from abrasive blasting can cause chronic lung disease.

When total dust levels have exceeded the TLM™ for particulates by factor of 27 or more, beryllium, listed as a carcinogen by OSHA, NTP, and IARC, has been found in levels up to five times its PEL of 2 ug/m<sup>3</sup>.

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### SECTION VI. REACTIVITY DATA

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**BLACK MAGIC®** is stable under normal conditions. **BLACK MAGIC®** does not undergo hazardous polymerization, nor form any hazardous chemical decomposition products. Under normal usage, physical breakdown of **BLACK MAGIC®** may produce significant respirable (< 10 micron) dust particles. Amorphous silica, a major component of **BLACK MAGIC®**, is incompatible with hydrofluoric acid.

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## SECTION VII. ENVIRONMENTAL PROTECTION PROCEDURES

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- Spill Response:** **BLACK MAGIC®** is classified as non-hazardous. Sweep up spilled material and dispose in a Sanitary Landfill or Industrial Disposal Site.
- Waste Disposal:** Unused **BLACK MAGIC®** is classified under USEPA guidelines as non-hazardous and may be disposed in a Sanitary Landfill or Industrial Disposal Site. Used **BLACK MAGIC®** may be contaminated by usage and must be evaluated for regulatory classification and disposed of according to local, state, and federal regulations.

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## SECTION VIII. SPECIAL PROTECTION INFORMATION

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- Eye Protection:** Usage of **BLACK MAGIC®** as an abrasive blasting media can present a significant danger to eyes. Safety goggles or full face respirator must be worn.
- Skin Protection:** Usage of **BLACK MAGIC®** as an abrasive blasting agent media can be an irritant to the skin. Protective clothing should be worn.
- Ventilation:** Sufficient local ventilation is recommended whenever possible to reduce worker exposure to below the TLV.
- Respiratory Protection:** For exposures up to five times the TLV™ for a particulates not otherwise specified, a NIOSH/MSHA approved half face air purifying respirator equipped with P100 filters may be used. For exposure up to fifty times the TLV, a NIOSH/MSHA approved full face respirator equipped with P100 filters may be used. For higher exposures, a type CE airline respirator for abrasive blasting must be used.

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## SECTION IX. SPECIAL PRECAUTIONS

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None.

### **DISCLAIMER**

All data or information regarding the product contained in this Material Data Safety Sheet (MSDS) is offered by the manufacturer in good faith as accurate, but is furnished without guaranty. While the information contained in the MSDS is based upon research and analysis, ABRASIVES INC makes no representation as to the accuracy of the information in this MSDS.

The conditions of the use of this product, and the suitability of the product for your particular application, are beyond the control of ABRASIVES INC. All risks of the use of the product are therefore assumed by you, the user. It is also your responsibility to pass on to your employees and /or customers the information contained in this MSDS, and give them appropriate warnings and safe handling instructions as necessary to make the product safe for its intended uses.