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MSDS SHEET - MARCO COAL SLAG - WOODBURY, MN

I. Identity

Manufacturer's Name: Abrasive Technologies Inc.
Manufacturer's Address: 499 Cottage Grove Drive
Woodbury, MN 55129
Emergency & Information Telephone #: 800-252-7848
Date Prepared: January 14, 2000. Reissued January, 2002.

II. Ingredients & Identity Information

Hazardous Components: Black Lightning abrasives are stable, amorphous glass-like compounds. Crystalline silica (quartz) content varies from non-detectable to a maximum detected of 2.1%

Chemical Identity	C.A.S. #	Percent	OSHA PEL	ASGIH TLV
Coal Slag	N/A	98+ %	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (total) 3 mg/m ³ (respirable)
Crystalline Silica(Quartz)	14808-60-7	0-1%	0.1 mg/m ³ (respirable)	0.1 mg/m ³ (respirable)

III. Physical & Chemical Characteristics

Solubility in Water: Negligible
Boiling Point: > 2500° F
Vapor Pressure (mm Hg.): N/A
Evaporation Rate: N/A
Appearance & Odor: Brown granular solid, no apparent odor

Specific Gravity (H2O = 1): 2.65
Melting Point: 2500° F
Vapor Density (AIR = 1): N/A
Hardness: 6 - 7 Mohs

IV. Fire & Explosion Hazard Data

Flash Point: N/A
Extinguishing Media: None required
Unusual Fire & Explosion Hazards: None

Flammable Limits: N/A
Special Fire Fighting Procedures: None

V. Reactivity Data

Stability: Stable
Incompatibility: None known
Hazardous Polymerization: Will not occur

Conditions to Avoid: None
Hazardous Decomposition/Byproducts: N/A
Conditions to Avoid: None

VI. Health Hazard Data

Route(s) of Entry: Inhalation: Yes
Skin: Eyes, Yes Ingestion: Not Significant

Health Hazards (Acute and Chronic): May cause mechanical irritation to eyes and skin. Low toxicity by ingestion. Primarily hazardous by inhalation. Dust can cause mucous membrane irritation. Repeated or extremely high exposure to dust could cause pneumoconiosis.

Carcinogenicity: NTP: No (Yes for Quartz)
IARC Monographs: No (Yes for Quartz) **OSHA Regulated:** No

Signs/Symptoms of Overexposure: Shortness of breath, coughing, impaired lung function

Medical Conditions Generally Aggravated by Exposure: Respiratory illness

Emergency and First Aid Procedures: Eyes: Flush with water for 15 minutes. Ingestion: Drink large amounts of water. Skin: wash with mild soap and water. Inhalation: Move the person to fresh air; support breathing.

MSDS SHEET - BLACK LIGHTNING - WOODBURY, MN

VII. Precautions for Safe Handling & Use

Steps to be Taken in Case Material is Released or Spilled: Follow established procedures for handling unregulated dusts and sands. Scoop or shovel into container, controlling dust. The material can be wetted with water to control dust. If material has been used for abrasive blasting, the waste material may be contaminated from blasting.

Waste Disposal Methods: May be disposed of in an approved landfill in accordance with all EPA, Federal, State and County disposal regulations. Disposal requirements may change once material has been used for abrasive blasting.

Precautions to Be Taken in Handling and Storage: Minimize inhalation and direct skin contact. Minimize dust generation. Respirator required in enclosed or poorly ventilated spaces and all other work involving high exposure.

Other Precautions: Carefully follow all EPA, Federal, State and County regulations.

VIII. Control Measures

Respiratory Protection: NIOSH approved Type CE airline respirators for abrasive blasting. NIOSH approved disposable dust mask (N100 recommended) for comfort, protection against dust when pouring material.

Ventilation:

Local Exhaust: To maintain exposure below TLV/PEL

Mechanical: To maintain exposure below TLV/PEL

Protective Gloves: Use gloves to prevent skin abrasion

Eye Protection: Safety glasses and chemical goggles

Other Protective Clothing or Equipment: Safety glasses and normal work clothing for limited exposure. Type CE abrasive blasting respirator (including head and face protection) and sturdy coveralls to protect against high dust levels and abrasive effects when doing abrasive blasting.

Work/Hygienic Practices: Normal practices.

IX. Silicosis Warning

⚠ DANGER Breathing dust containing silica will cause silicosis, a fatal lung disease. Breathing dust during blasting operations will cause asbestosis, lead poisoning and/or other serious or fatal diseases. A NIOSH-approved, well-maintained, supplied-air abrasive blasting respirator must be used by anyone blasting, anyone handling or using the abrasive and anyone in the area of the dust. Harmful dust containing toxic material from abrasives or surfaces being blasted can remain suspended in the air for long periods of time after blasting has ceased. Failure to avoid the above danger will result in death or serious injury.

⚠ DANGER You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to avoid the above danger will result in death or serious injury.

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