



Quality Assurance Resources, LLC

MSDS Sheet Supplied by:



MATERIAL SAFETY DATA SHEET

Date Prepared: 05-28-2013

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Coal Calibration Material, Proficiency Testing Material, Research and Development Material, naturally occurring mineral.

MANUFACTURER

Quality Assurance Resources, LLC
8455 River King Road
Freeburg, IL 62243
Phone (618) 539-5839

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>OSHA PEL</u> <u>(mg/m³)</u>	<u>ACGIH TLV</u> <u>(mg/m³)</u>	<u>%</u> <u>Wt.</u>
Coal	Mixture	2	2	100

3. HAZARDS IDENTIFICATION

Immediate Concerns: Caution! Combustible particulate solids of sufficient small particle size when suspended in air in the presence of an ignition source can result in a fire or explosion. Control of ignition sources and adequate housekeeping should be provided. Prolonged exposure to dust may cause pulmonary damage. Not classified as a hazardous substance under fire, spill, and leak conditions. Carbon monoxide, carbon dioxide and other asphyxiates may evolve during combustion.

Potential Health Effects: This product may be irritating to the skin, eyes, and respiratory and gastrointestinal tract. Inhalation of dusts may lead to irreversible lung disease and/or cancer. Acute overexposure may experience symptoms of lung damage (scarring, bronchitis, emphysema) include shortness of breath (upon

exertion), and may be accompanied by chronic cough. Exposure to this product may aggravate pre-existing disorders or diseases of the lung and respiratory system.

4. FIRST AID MEASURES

Eyes: Hold eyelids apart and flush with water for at least 20 minutes. If irritation occurs and persists, obtain medical attention.

Skin: Wash immediately with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation occurs and persists. Wash clothing prior to reuse.

Ingestion: Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point	N/A
LEL	N/A
UEL	N/A
Extinguish Media	Water
Special Fire Fighting Procedures	None
Unusual Fire and Explosion Hazards	None Known

FIREFIGHTING INSTRUCTIONS: Remove from storage, spread out in thin layer and saturate with water. Wear a NIOSH approved air-supplied respirator including proper protective equipment when working with burning coal in confined areas. Coal dust can ignite spontaneously under certain conditions. When present in high concentration, dry coal dust is a moderate explosion hazard.

HARZARD RATINGS:

Key: 0 = minimal (least), 1 = slight, 2 = moderate, 3 = serious, 4 = extreme,
F = (Safety glasses, gloves, apron, dust respirator)

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>PPE</u>
NFPA	2	2	0	
HMIS	2	2	0	F

6. ACCIDENTAL RELEASE MEASURES

Avoid breathing dust. Sweep or vacuum up material and dispose of using the procedure under waste disposal method.

7. HANDLING AND STORAGE

Handling and Storing:

Minimize dust generation and accumulation during cleanup. Keep away from ignition sources. Keep container sealed when not in use. Wash hands before eating. Use respiratory protection if generation of airborne dust is anticipated.

Waste Disposal Method:

Comply with federal, state, and local regulations.

Other Precautions:

None known

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure. Minimize generation of dust or fine particulates.

Personal Protection

Respiratory Protection	Approved dust respirator
Protective Gloves	Abrasive resistant
Other Protective Clothing or Equipment	Apron
Work/Hygienic Practices	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black to gray solid
Odor	None
pH	N/A
Boiling Point	N/A
Melting Point	N/A
Freezing Point	N/A
Vapor Pressure (mm Hg)	N/A
Vapor Density (AIR = 1)	N/A
Specific Gravity (H2O = 1)	0.9 - 1.92
Solubility in Water	Negligible
Evaporation Rate	N/A

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid	Avoid heat, ignition sources and incompatible materials.
Incompatibility	Strong Oxidizers
Hazard Decomposition Products	Carbon monoxide, carbon dioxide and other asphyxiates may evolve during combustion.
Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Eye Effects: Data not available for the product.
Skin effects: Data not available for the product.
Dermal LD50: Data not available for the product.
Oral LD50: Data not available for the product.
Inhalation LC50: Data not available for the product.

Acute effects from overexposure: Data not available for the product. This product may be irritating to the skin, eyes, respiratory and gastrointestinal tract.

Chronic effects from overexposure: Data not available for the product.

Coal miner's pneumoconiosis (anthracosis) was recognized as one of the earliest forms of occupational disease. Pulmonary fibrosis does not occur unless the coal dust contains crystalline silica (SiO_2) which is strongly fibrogenic. The potency of the dust may vary as a result of the chemical composition. Utilization of the safety precautions and handling procedures in this MSDS should be followed to minimize employee exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Data not available for the product. Leachate from this product may contain various heavy metals.

Chemical fate information: Data not available for the product. At high concentrations, this product may affect the turbidity, oxygen demand, and suspended solid concentration of aquatic systems.

13.DISPOSAL CONSIDERATION

Waste Disposal Method:

Comply with federal, state, and local regulations.

14.TRANSPORT INFORMATION

U.S. DOT (Department of Transportation)

Proper Shipping Name: Not regulated

Primary Hazard Class/Division: Not applicable

UN/NA Number: None

Placards: None

Label: Not applicable

Special Shipping Notes: IMDG: Not regulated
 IATA: Not regulated

15.REGULATORY INFORMATION

All components are in compliance with the following inventories: U.S. TSCA, EU EINECS, Canadian DSL, Australian AICS, Korean, Philippine PICCS, Chinese,

TSCA Status: On Toxic Substance Control
 Inventory

SARA Title III:

Section 302 Extremely Hazardous Not regulated
Substances:

Section 304 Emergency Release Not regulated
Notification:

Section 311/312 Hazard Categories: Fire, Acute

Section 313 Toxic Chemicals: Not regulated

CERCLA Reportable Quantity: Not applicable

OSHA Process Safety 929 CFR 1910.119):	Not regulated
RECRA Status:	Not regulated
Canadian WHMIS classification:	D2A
California Proposition 65:	Known as cancer causing for silica crystalline particles of respirable size.

16. OTHER INFORMATION

While the information contained in this Material Safety Data Sheet (MSDS) is based on technical data, which Quality Assurance Resources, LLC believes to be correct, it is nevertheless intended for use by persons possessing technical skill and at their own discretion and risk. Since the conditions of use are beyond the control of Quality Assurance Resources, LLC, no warranty, expressed or implied, is made, and no liability in connection with any use of this information is assumed.