

Keystone Filler & Mfg. Company

Material Safety Data Sheet

I. IDENTIFICATION

Product Name: 121 Mineral Black Filler **Synonyms:** Semi Anthracite Coal

Manufacturer: Keystone Filler & Mfg. Company **Product Information:** 570-546-3148
214 Railroad Street **Emergency Response:** 800-255-3924
Muncy, Pa. 17756

Date of Form Preparation: 6/30/93 Rev. 8/99

Approved: MD

II. TYPICAL CHEMICAL INGREDIENTS

Components: Semi Anthracite Coal CAS# 8029-10-5

Coal consists mainly of a complex mixture of organic compounds. Small amounts of sulfur, Crystalline Silica, Silicates and other inorganic compounds may be present.

May contain greater than 0.1% free Crystalline Silica, CAS# 14808-60-7 which is suspected to be a carcinogen (.1% - 1.0%).

This product contains no Asbestos.

III. PHYSICAL DATA

Physical State:	Solid	Melting Point:	N/A
Appearance and odor:	Finely ground black powder	Vapor Density:	N/A
	Odorless.	Vapor Pressure:	N/A
Boiling Point:	N/A	Volatile by Volume:	10% Maximum
Evaporation Rate:	(Butyl Acetate=1)N/A		
Specific Gravity:	(H ₂ O=1) 1:40% ± .04%		
Solubility in water:	Insoluble		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Heat processing could volatilize some ingredients of this product. Certain concentrations of dust could pose explosion hazard in extremely rich oxygen and high heat atmosphere.

Flammable Limits: 300° - 600°

IV. FIRE AND EXPLOSION HAZARD DATA(continued)

Extinguishing Media: Water, Dry Chemical

Special Fire Fighting Procedures: Wear goggles or face shield and self-contained breathing apparatus. Take precautions against steam burns when using water. Product will float and spread the fire. Carbon Monoxide and Carbon Dioxide are emitted during burning. Do not use strong streams of water that could stir up dust clouds. Minimize dust generation during handling.

V. REACTIVITY DATA

Stable: Hazardous polymerization will not occur.

Conditions to avoid: Stable under normal conditions. Avoid fire, flame and heat in storage areas.

Hazardous Decomposition Products: Combustion may produce carbon monoxide and carbon dioxide. Exhaust systems should have adequate pressure release valves.

VI. HEALTH HAZARD DATA

Health Effects/Signs and Symptoms: Short term exposure may cause minor eye, nose, throat, lung and skin irritation. Excessive exposure to dust may lead to coughing, shortness of breath, Bronchitis, Emphysema.

Carcinogen Information: Not considered to be carcinogen.

NTP No IARC NO OSHA NO

See Section II. Hazardous Ingredients for threshold limit values.

VII. FIRST AID AND MEDICAL EMERGENCY PROCEDURES

Eye Contact: If dust causes irritation, irrigate eyes with large amounts of sterile saline solution to remove dust particles, or wash eyes thoroughly with large amounts of water. Remove from dust area. Supply with fresh(clean) air. If symptom persists, seek medical attention.

Skin Contact: Wash skin with mild soap and water if skin contact occurs. Not anticipated to pose an acute or significant skin contact hazard.

Ingestion: Not considered to be an ingestion hazard.

Respiratory Protection: Use MSHA, OSHA, NIOSH approved respirator for dusts within the use limits of respirator.

Eye Protection: Approved close fitting safety goggles.

Skin Protection: Gloves and long-sleeve clothing are recommended. Wear coveralls with snug fitting neck, arm and leg openings.

VIII. SPILL, LEAK AND DISPOSAL INFORMATION

Dust: Do not allow dust to accumulate on surrounding surfaces and work area. Minimize dust generation.

If material is released or spilled, contain in smallest area possible. Avoid generating dust. Do not breathe excessive dust.

Waste Disposal: Non-recyclable product should be placed in proper containers and disposed of in accordance with local, state, and federal laws.

To recycle, recover as much of the product as possible by shovel or mechanical means, place in appropriate containers.

IX. HAZARDOUS RATING

Hazard Rating: 0 = Minimal Hazard 1 = Slight Hazard
 2 = Moderate Hazard 3 = Serious Hazard
 4 = Severe Hazard

Health Hazard Rating = 1 Flammability Hazard Rating = 1 Reactivity Hazard Rating = 1
Personnel Protection Index = G (goggles, gloves, dust mask)

RCRA HAZARDOUS WASTE: NO X YES

The information and recommendations set forth herein are believed to be accurate as of the date hereof and are supplied for information purposes only.

THE MANUFACTURERS MAKES NO WARRANTY WITH RESPECT THERETO AND
DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.



214 RAILROAD ST. • MUNCY, PENNSYLVANIA 17756 • TEL. 570 546-3148 • FAX 570 546-7067

Product Data Sheet

121 Mineral Black Filler

Carbon Based Filler

Semi-Anthracite CAS#8029-10-5

Fineness: 90.00% Minus 325 Mesh

Typical Analysis

Ash – Max	12.00% Maximum
Fixed Carbon	77.20%
Volatile Matter	10.00%
Sulfur	.8%
Specific Gravity	1.40% + .04%
Silica Oxide In Ash	5.40%
Alumina Oxide In Ash	3.97%
Iron Oxide In Ash	.72%
Titanium Oxide In Ash	.17%
Potassium Oxide In Ash	.15%
Calcium Oxide In Ash	.12%
Manganese In Ash	.17%

Moisture Content: 1% Maximum At Time Of Shipment

Pounds per Gallon: 10.59

Bulking Value: Gallons per pound .094

Paste P^H 7.50

Caution: May contain greater than 0.1% free Crystalline Silica, CAS# 14808-60-7

Keystone Filler & Mfg. Company

Material Safety Data Sheet

I. IDENTIFICATION

Product Name: 123 Mineral Black Filler **Synonyms:** Semi Anthracite Coal

Manufacturer: Keystone Filler & Mfg. Company **Product Information:** 570-546-3148
214 Railroad Street **Emergency Response:** 800-255-3924
Muncy, Pa. 17756

Date of Form Preparation: 6/30/93 Rev. 8/99
Approved: MD

II. TYPICAL CHEMICAL INGREDIENTS

Components: Semi Anthracite Coal CAS# 8029-10-5

Coal consists mainly of a complex mixture of organic compounds. Small amounts of sulfur, Crystalline Silica, Silicates and other inorganic compounds may be present.

May contain greater than 0.1% free Crystalline Silica, CAS# 14808-60-7 which is suspected to be a carcinogen (.1% - 1.0%).

This product contains no Asbestos.

III. PHYSICAL DATA

Physical State:	Solid	Melting Point:	N/A
Appearance and odor:	Finely ground black powder Odorless.	Vapor Density:	N/A
Boiling Point:	N/A	Vapor Pressure:	N/A
Evaporation Rate:	(Butyl Acetate=1)N/A	Volatile by Volume:	8.25% - 14%
Specific Gravity:	(H ₂ O=1) 1.35% ± .04%		
Solubility in water:	Insoluble		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Heat processing could volatilize some ingredients of this product. Certain concentrations of dust could pose explosion hazard in extremely rich oxygen and high heat atmosphere.

Flammable Limits: 300° - 600°

IV. FIRE AND EXPLOSION HAZARD DATA(continued)

Extinguishing Media: Water, Dry Chemical

Special Fire Fighting Procedures: Wear goggles or face shield and self-contained breathing apparatus. Take precautions against steam burns when using water. Product will float and spread the fire. Carbon Monoxide and Carbon Dioxide are emitted during burning. Do not use strong streams of water that could stir up dust clouds. Minimize dust generation during handling.

V. REACTIVITY DATA

Stable: Hazardous polymerization will not occur.

Conditions to avoid: Stable under normal conditions. Avoid fire, flame and heat in storage areas.

Hazardous Decomposition Products: Combustion may produce carbon monoxide and carbon dioxide. Exhaust systems should have adequate pressure release valves.

VI. HEALTH HAZARD DATA

Health Effects/Signs and Symptoms: **Short term** exposure may cause minor eye, nose, throat, lung and skin irritation. **Excessive** exposure to dust may lead to coughing, shortness of breath, Bronchitis, Emphysema.

Carcinogen Information: Not considered to be carcinogen.

NTP No IARC NO OSHA NO

See Section II. Hazardous Ingredients for threshold limit values.

VII. FIRST AID AND MEDICAL EMERGENCY PROCEDURES

Eye Contact: If dust causes irritation, irrigate eyes with large amounts of sterile saline solution to remove dust particles, or wash eyes thoroughly with large amounts of water. fitting neck, arm and leg openings. Remove from dust area. Supply with fresh(clean) air. If symptoms persist, seek medical attention.

Skin Contact: Wash skin with mild soap and water if skin contact occurs.

Ingestion: Not considered to be an ingestion hazard.

Respiratory Protection: Use MSHA, OSHA, NIOSH approved respirator for dusts within the use limits of respirator.

Eye Protection: Approved close fitting safety goggles.

Skin Protection: Gloves and long-sleeve clothing are recommended. Wear coveralls with snug

VIII. SPILL, LEAK AND DISPOSAL INFORMATION

Dust: Do not allow dust to accumulate on surrounding surfaces and work area. Minimize dust generation.

If material is released or spilled, contain in smallest area possible. Avoid generating dust. Do not breathe excessive dust.

Waste Disposal: Non-recyclable product should be placed in proper containers and disposed of in accordance with local, state, and federal laws.

To recycle, recover as much of the product as possible by shovel or mechanical means, place in appropriate containers.

IX. HAZARDOUS RATING

Hazard Rating:	0 = Minimal Hazard	1 = Slight Hazard
	2 = Moderate Hazard	3 = Serious Hazard
	4 = Severe Hazard	

Health Hazard Rating = 1 Flammability Hazard Rating = 1 Reactivity Hazard Rating = 1
Personnel Protection Index = G (goggles, gloves, dust mask)

RCRA HAZARDOUS WASTE: NO X YES

The information and recommendations set forth herein are believed to be accurate as of the date hereof and are supplied for information purposes only.

THE MANUFACTURERS MAKES NO WARRANTY WITH RESPECT THERETO AND
DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.



214 RAILROAD ST. • MUNCY, PENNSYLVANIA 17756 • TEL. 570 546-3148 • FAX 570 546-7067

Product Data Sheet

123 Mineral Black Filler

Carbon Based Filler

Semi-Anthracite CAS#8029-10-5

Fineness: 99.50% Minus 325 Mesh

Typical Analysis

Ash	10.00% Maximum
Fixed Carbon	77.60%
Volatile Matter	11.60%
Sulfur	.8%
Specific Gravity	1.35% \pm .04%
Silica Oxide In Ash	5.40%
Alumina Oxide In Ash	3.97%
Iron Oxide In Ash	.72%
Titanium Oxide In Ash	.17%
Potassium Oxide In Ash	.15%
Calcium Oxide In Ash	.12%
Manganese In Ash	.17%

Moisture Content: 1% Maximum At Time Of Shipment

Pounds per Gallon: 10.59

Bulking Value: Gallons per pound .094

Paste P^H 7.50

Caution: May contain greater than 0.1% free Crystalline Silica, CAS# 14808-60-7

Material Safety Data Sheet

(In compliance with CFR 1910.1200 and WHMIS)

Keystone Filler & Mfg Company

214 Railroad Street

Muncy, Pa. 17756

Telephone: 570-546-3148 Fax: 570-546-7067

HMIS rating

2 - Health

1 - Flammability

0 - Reactivity

Section 1 - Chemical Product and Company Identification

Trade Name: 126 Mineral Black Filler®, a ground coal product.

Product type: Semi Anthracite Coal (CAS# 8029-10-5)

Product Chemical Name: Semi Anthracite Coal, a naturally occurring mineral

Chemical Family: Carbon Based Filler

Product Name: Ground coal filler

Manufacturer: Keystone Filler & Mfg Company

Prepared by: Keystone Filler & Mfg. Company

Date revised: January, 2007

Previous revision date: December 1998

Section 2 - Composition/Information on Hazardous Ingredients

Substance Name	C.A.S. Number	% by Weight
Semi Anthracite Coal	8029-10-5	90 - 100
Silica (Quartz)	14808-60-7	0.1 - 1.0

Emergency Response Telephone # 800-255-3924

Section 3 - Hazards Identification

Physical Hazards: Combustible black powder. Releases COx SOx and Methane when burning. Not easily extinguished when burning.

Health effects:

- **Inhalation** – Temporary discomfort to upper respiratory tract may occur due to inhalation of high dust levels well above the 8 hour occupational exposure limit. Long term inhalation of coal dust may lead to pneumoconiosis.
- **Skin** – No adverse effects expected.
- **Ingestion** – No adverse effects expected
- **Eyes** – Not identified as an irritant. High dust concentrations may cause mechanical irritation.
- Semi Anthracite Coal has been evaluated by IARC as a Group 3: Unclassifiable as to *carcinogenicity to humans*. Ground Anthracite coal may contain up to 1.0% Silica (Quartz) which has been evaluated by IARC as a Group 1: *Carcinogenic to humans*. The NPT has not classified Anthracite coal as to its carcinogenic but has classified Silica (Quartz) as a NTP-K: *Known to be a human carcinogen*. See Sections 10 and 11 for further information.

Section 4 - Fire Fighting Measures

Extinguishing Media: Water spray (FOG), or CO₂, is best extinguishing medium for small fires.

Unsuitable Media: Water stream.

Lower Explosive Limit

Unknown

Flammability

Classification

Combustible Solid

Upper Explosive Limit

Unknown

Flame Propagation

in Air

Slow burning solid

Flash Point

Not Applicable

Ignition in Air

Above 1300°F
(704°C)

Fire Fighting Instructions:

Normal fog nozzle water application and/or exclusion of air.

Combustion Hazards:	COx SOx and Methane.
Protective Equipment:	Normal fire fighting equipment with appropriate respirator for COx SOx and Methane.
Unusual Fire Hazards:	It may not be noticed that the product is burning unless it is stirred and sparks are apparent. Material that has been on fire should be watched closely to insure that no smoldering material is present.
Dust Explosion Potential:²	When high dust concentrations exist and a significant energy source is applied tests have determined that dust clouds and layers of 200 mesh (0.075 mm) coal dust and an air mixture can explode. Minimum Ignition Temperature cloud>1200°F(649°C) Minimum Ignition Temperature layer>350°F(177°C)
Sensitivity to Impact:	Not applicable

Section 5 - Accidental Release Measures

Personal Precautions:	Wear appropriate respiratory protection for the dust levels anticipated, see Section 10.
Spill Cleanup Measures:	In order to minimize dust, spills should be removed by vacuuming, or by lightly spraying with water and sweeping mixture into a suitable container. Do not dry sweep.
Environmental Precautions:	Ground coal is not a hazardous waste. Dispose in a landfill or by incineration in accordance with national and local laws and regulations.

Section 6 - Handling and Storage

Handling and Storage Precautions:	<ul style="list-style-type: none"> • Prevent exposure to high temperatures and flames. • Prevent exposure to strong oxidizers. • Store in a dry clean area.
Hygienic Practices:	Avoid creating dust. Clean up all spills promptly. Wash exposed skin daily. Wash work clothes daily.

Section 7 - First Aid Measures

Inhalation: In case of discomfort, remove the exposed individual to fresh air.

Skin Not hazardous. Wash exposed skin for hygienic purposes.

Ingestion: Not hazardous. Symptomatic treatment is recommended.

Eyes: Treat symptomatically for irritation. Flush lightly with water to remove the dust.

Section 8 - Physical and Chemical Properties

Physical State Solid Powder	Color Black	Odor None
Odor Threshold Not Applicable	pH 7.50	Flash point Not Applicable
Evaporation Rate Not Applicable	Melting/Freezing Point Not Applicable	Volatile 10%
Solubility in Water Insoluble	Specific Gravity 1.42% \pm .04%	Vapor Density Not Applicable
Vapor Pressure Not Applicable	Rapid Vapor Pressure Not Applicable	Water/Oil Distribution Not Applicable
Viscosity Not Applicable	Pour Point Not Applicable	

Section 9 - Stability and Reactivity

Chemical Stability: Stable

Conditions to avoid: Contact with strong oxidizers, especially when heated. High temperatures or flames.

Incompatible materials: Strong oxidizers

Reactivity: May react exothermically upon contact with strong oxidizers.

Hazard Releases carbon monoxide, carbon dioxide (CO₂), sulfur monoxide, sulfur dioxide (SO₂), and Methane.

Decomposition:

Polymerization: Not applicable

Section 10 - Exposure Controls and Personal Protection

Inhalation Standards	Exposure Limits		Amount
C.A.S. No.	PEL	TLV	%
Coal Semi Anthracite C.A.S. No. Not Applicable Naturally Occurring Mineral	* 2.4mg/m ³	* 0.9mg/m ³	90 - 100
Silica (Quartz) C.A.S. No. 14808-60-7	*10mg/m ³ % SiO ₂ +2	* 0.05mg/m ³	0.1 - 1.0

* Reparable fraction <5% SiO₂

Respiratory Protection: Not required if dust levels are maintained below the PEL or TVL listed.
For levels above the listed PEL and TLV an appropriate NIOSH/MSHA approved respirator should be used.

Personal Protective Equipment:

Gloves:	None required.
Protective Clothing:	None required
Eye/Face Protection:	None required
Engineering Controls:	Use sufficient ventilation in volume and pattern to maintain dust exposures below TLV.
Other Protective Measures:	Wash exposed skin before eating, drinking and smoking. Wash clothing daily.

Section 11 - Toxicological Information

Routes of Exposure:	Inhalation, Ingestion, Eyes, Skin contact.
Medical Conditions	None expected. Like any nuisance dust, may aggravate
Synergistic Materials	None expected.
Acute Effects:	
<i>Inhalation:</i>	None expected. Based on experience, temporary discomfort
<i>Ingestion:</i>	No adverse effects expected.
<i>Eye:</i>	No adverse effects expected. High dust concentrations may
<i>Skin:</i>	No adverse effects expected.
Chronic Effects:	
<i>Inhalation:</i>	Long term inhalation of coal dust amounts may lead to the
<i>Carcinogenic:</i>	Coal contains a small amount of Crystalline Silica (Quartz).
<i>Ingestion:</i>	No Adverse effects expected.
<i>Eye:</i>	No adverse effects expected.
<i>Skin:</i>	No adverse effects expected.

Section 12 - Regulatory Information

**Resource Conservation
and Recovery Act,
(RCRA):**

All metals are below the TCLP listed levels.

UN Classification:

Not classified.

SARA Title III:

This product does not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-know Act of 1986 and of CFR 372.

**TSCA and DSL
Inventories:**

This product is listed as a naturally occurring substance.

Section 13 - Other Information

Disclaimer: The information set forth above is based on information that Keystone Filler & Mfg. Company, Inc. believes to be accurate. No warranty expresses or implied, is intended. The information is provided solely for your information and consideration. Keystone Filler & Mfg. Co. assumes no responsibility for its use or reliance thereon.



214 RAILROAD ST. • MUNCY, PENNSYLVANIA 17756 • TEL. 570 546-3148 • FAX 570 546-7067

Product Data Sheet

126 Mineral Black Filler Carbon Based Filler

Semi-Anthracite CAS#8029-10-5

Fineness: 96% - 98% Minus 200 Mesh
80% - 85% Minus 325 Mesh

Typical Analysis

Ash	14.00% Maximum
Fixed Carbon	80.00%
Volatile Matter	10.00%
Sulfur	.8%
Specific Gravity	1.42% \pm .04%
Silica Oxide In Ash	5.70%
Alumina Oxide In Ash	3.25%
Ferric Oxide In Ash	1.35%
Titanium Oxide In Ash	.17%
Potassium Oxide In Ash	.15%
Calcium Oxide In Ash	.12%
Manganese In Ash	.17%

Moisture Content: 1% Maximum At Time Of Shipment

Pounds per Gallon: 11.0

Bulking Value: Gallons per pound .091

Paste P^H 7.50

Caution: May contain greater than 0.1% free Crystalline Silica, CAS# 14808-60-7

Rottenstone

CAS# 1335-30-4

Description: Decomposed Siliceous Sandstone from Natural Sediment

Typical Analysis:

Silica	62.28%
Alumina	20.71%
Iron Oxide	7.65%
Calcium Oxide	2.52%
Magnesium Oxide	2.02%
Sodium Oxide	1.21%
Potassium Oxide	3.61%

Fineness: 99% Minus 325 Mesh

Specific Gravity: 2.68%

Paste P^H 8.1

Bulking Value: Gallons Per Pound .0447 Pounds Per Gallon 22.37

Oil Absorption: 22 (52 lbs. per cubic foot)

Moisture Content: 1% Maximum At Time Of Shipment

Color: Light Gray

Keystone Filler & Mfg. Company

Material Safety Data Sheet

I. IDENTIFICATION

Product Name: Rottenstone (Light Gray Slate) **Synonyms:** Ground Shale/Slate

Manufacturer: Keystone Filler & Mfg. Company **Product Information:** 570-546-3148
214 Railroad Street **Emergency Response:** 800-255-3924
Muncy, Pa. 17756

Date of Form Preparation: 6/30/2005 **Rev.** 04/01/2007 **Approved by:** DP

II. TYPICAL CHEMICAL INGREDIENTS

Components: Decomposed Siliceous Sandstone from Natural Sediment
CAS# 1335-30-4

III. PHYSICAL DATA

Physical State:	Solid	Melting Point:	N/A
Appearance and odor:	Finely ground Light Gray powder Odorless.	Vapor Density:	N/A
Boiling Point:	N/A	Vapor Pressure:	(mm Hg) N/A
Evaporation Rate:	(Butyl Acetate=1) N/A		
Specific Gravity:	(H ₂ O=1) 2.7%		
Solubility in water:	Insoluble		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A	Flammable Limits: None
Extinguishing Media: N/A	Special Fire Fighting Procedures: None

Minimize dust generation during handling.

V. REACTIVITY DATA

Stable: Hazardous polymerization will not occur.

VI. HEALTH HAZARD DATA

Health Effects/Signs and Symptoms: **Short term** exposure may cause minor eye, nose, throat, lung and skin irritation. **Excessive** exposure to dust may lead to coughing, shortness of breath, Bronchitis, Emphysema.

Carcinogen Information: Not considered to be carcinogen.

NTP No IARC NO OSHA NO

See Section II. Hazardous Ingredients for threshold limit values.

VII. FIRST AID PROCEDURES

Eye Contact: If dust causes irritation, irrigate eyes with large amounts of sterile saline solution to remove dust particles, or wash eyes thoroughly with large amounts of water. If symptom persists, seek medical attention.

Skin Contact: Wash skin with mild soap and water if skin contact occurs. Not anticipated to pose an acute or significant skin contact hazard.

Ingestion: Not considered to be an ingestion hazard. Remove from dust area. Supply with fresh(clean) air.

Respiratory Protection: Use MSHA, OSHA, NIOSH approved respirator for dusts within the use limits of respirator.

Eye Protection: Approved close fitting safety goggles.

Skin Protection: Gloves and long-sleeve clothing are recommended. Wear coveralls with snug fitting neck, arm and leg openings.

VIII. SPILL, LEAK AND DISPOSAL INFORMATION

Dust: Do not allow dust to accumulate on surrounding surfaces and work area. Minimize dust generation.

If material is released or spilled, contain in smallest area possible. Avoid generating dust. Do not breathe excessive dust.

Waste Disposal: Non-recyclable product should be placed in proper containers and disposed of in accordance with local, state, and federal laws.

To recycle, recover as much of the product as possible by shovel or mechanical means, place in appropriate containers.

IX. HAZARDOUS RATING

Hazard Rating: 0 = Minimal Hazard 1 = Slight Hazard
 2 = Moderate Hazard 3 = Serious Hazard
 4 = Severe Hazard

Health Hazard Rating = 1 Flammability Hazard Rating = 1 Reactivity Hazard Rating = 1
Personnel Protection Index = G (goggles, gloves, dust mask)

RCRA HAZARDOUS WASTE: NO X

The information and recommendations set forth herein are believed to be accurate as of the date hereof and are supplied for information purposes only.

THE MANUFACTURERS MAKES NO WARRANTY WITH RESPECT THERETO AND
DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.