

Asbury Graphite Mills, Inc.
Cummings – Moore Graphite Co.
Anthracite Industries
Southwestern Graphite
Asbury Graphite of California

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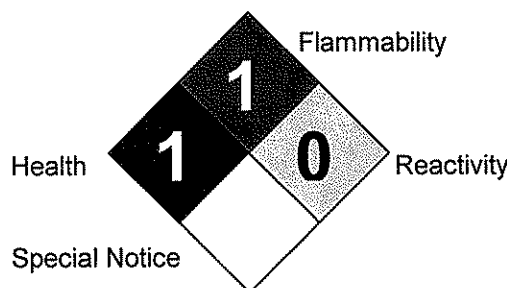
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Material Safety Data Sheet

HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	E

NFPA



Section 1 – Identification of the Substance / Preparation, and of the Company

Product Name/ Trade Name	Natural Graphite 85-98% Carbon	CAS# 7782-42-5	Grade:
Manufacturer	Asbury Carbons PO Box 144, 405 Old Main Street Asbury, NJ 08802	Emergency Phone	1-800-255-3924
		Information Phone	1-908-537-2155
		Fax	1-908-537-2908
		Date Prepared	July 12, 2012
		Preparer (optional)	AVT
REACH Registration Number: Natural graphite is exempt from REACH registration			
EC Number: #231-955-3			
Uses: Inorganic source of carbon, filler, thermal additive, re-carburizer, casting powders, drilling fluids, plastic additive, rubber additive, tint/pigment, lubricant, chemically resistant additive, EMF absorber, milling and sieving, bulk loading, unloading, repackaging, general inert filler-additive.			
Uses Advised Against: None			

Section 2 – Hazards Identification:

GHS Classification

Health	Environmental	Physical
Acute Toxicity-Not Classified Eye Corrosion-Sub-category 2A Skin Corrosion-Not Classified Skin Sensitization-Category 3 Mutagenicity-Not Classified Carcinogenicity-Not Classified Reproductive/Development- Not Classified Target Organ Toxicity-Not Classified	Natural graphite is an insoluble, inorganic substance and is not expected to present any environmental hazards other than those expected for an insoluble particulate.	Solid material which poses no physical hazard according to GHS classification.

Hazard Statements/Precautionary Statements: Natural graphite may contain crystalline silica, variety quartz. This substance is not admixed with the graphite, but is a naturally occurring mineral impurity that is intimately associated with the graphite. In most cases this silica is not in respirable form unless the graphite is very finely divided. IARC Monograph Vol 68, 1997 Concludes That There Is Sufficient Evidence That Inhaled Crystalline Silica Causes Cancer In Humans. IARC Classification: Group 1

Section 3 – Composition / Information on Ingredients

Components	CAS Number	%
Natural Graphite	7782-42-5	100%

Section 4 – First Aid Measures

Ingestion	Get immediate medical attention. Do not induce vomiting unless directed by medical personnel. Natural graphite is not known to be toxic by ingestion. However, ingestion may cause digestive system blockage.
Skin Contact	Wash with mild soap and warm water: Natural graphite is non-staining to skin
Eye Contact	Rinse with tepid water until eyes are clear of particulates. Seek medical attention if irritation persists.
Inhalation	Remove patient to particulate-free environment. Wear approved dust mask to avoid breathing dust. Seek medical attention if irritation persists.

Section 5 – Fire Fighting Measures

Natural Graphite is not flammable under normal conditions	
Extinguishing Media	Dry chemical extinguisher, water, sand, limestone powder,
Protective Equipment	Self contained air pack, gloves, safety goggles
Special Hazards	At temperatures above 1500 C, graphite reacts with substances containing oxygen, including water and carbon dioxide. In case of intensely hot fire events, use sand to cover and isolate graphite.
NFP Rating	110
Products of Combustion:	Carbon dioxide, CO ₂ , carbon monoxide, CO.

Section 6 – Accidental Release Measures

Personal Precautions	Wear approved dust mask, safety goggles, and conventional work gloves.
Methods for Cleaning Up:	Conventional Sweep or vacuum. Avoid creating dusting conditions
Environmental Precautions: Natural graphite is inert and insoluble and will not pose any soluble ion hazards to the environment. However, good housekeeping practices should be followed and spilled material should be cleaned up, and disposed of in an appropriate manner.	

Section 7 – Handling and Storage

Handling	Conventional means to avoid dusting conditions. Keep powder from contacting eyes. Natural graphite is a good conductor of electricity. Avoid contact between natural graphite and electrical circuitry.
Slip Hazard	Graphite is a highly lubricious material and may present a slip hazard if spilled on pedestrian surfaces.
Storage and Incompatibilities	Store all carbonaceous materials in a dry location. Natural graphite is incompatible with all oxidizing agents.

Section 8 – Exposure Controls/ Personal Protection

Control Parameters	German or US Limits			Control Reference
	Component	CAS No.	%	
Natural Graphite	7782-42-5	100	2.0 mg/m ³ Respirable dust	3 mg/m ³ for nuisance dust
Silica, var Quartz	14808-60-7	0.1-4%	0.025 mg/m ³ Respirable dust	2011 ACGIH TLV Handbook
Engineering Measures	Use adequate dust collection to maintain dust levels below the control or recommended values.			
Respiratory Protection	Approved dust mask, type N95 recommended.			
Eye Protection	Conventional safety glasses or goggles.			
Skin Protection	Conventional work gloves and clothing.			
Additional	None			

Section 9 – Physical and Chemical Properties

Color:	Gray to Black	Material State	Solid, granular or powder
Odor	None		
Boiling Point:	NA	Melting Point	Sublimates at 3652C
Specific Gravity	2.26	Vapor Density	Not applicable
Vapor Pressure (mm Hg)	NA	% Volatile (By Wt.)	0-4%
Solubility in Water	Insoluble	Evaporation Rate:	Not applicable
pH	NA	Auto Ignition	Above 500 °C
Decomposition Temp	Oxidizes above 400C	Dust Explosion class	ST1=KST>0-200 bar m/s
Flash Point	NA Solid substance with very high melting point.		

Section 10 – Stability and Reactivity

Stability	Stable. Will not polymerize
Conditions to Avoid	Avoid contact with oxidizing agents
Materials to Avoid	Oxidizing agents
Hazardous Decomposition Products	Carbon Dioxide (CO ₂), Carbon Monoxide (CO)
Flammable Limits (% by Vol.)	LEL and UEL values not available: Minimum Ignition Energy (MIE) greater than 10 joules. When exposed to extremely high energy ignition sources very finely divided graphite powder can form explosive mixtures with air. Avoid contact between graphite dust clouds and high energy ignition sources. Classified as not flammable.

Section 11 – Toxicological Information

Toxicological information about natural graphite is not available. Natural graphite is inert, insoluble and is not expected to present an ingestion hazard.

Section 12 – Ecological Information

Assessment	Natural graphite is inert and insoluble. To the best of our knowledge, natural graphite should not present any environmental hazards.
Persistence and degradability:	Natural graphite is a reduced form of carbon and will not degrade further under normal conditions. This form of carbon is stable, unreactive in water under ambient conditions, and is insoluble.
Bioaccumulation:	There is no evidence indicating that natural graphite is bioaccumulative.
Aquatic Toxicity:	Data not available.
Soil Mobility:	Not determined, however natural graphite is not expected to have mobility in soil as it is an insoluble, inorganic substance.

Section 13 – Disposal Considerations

Dispose of in a manner which conforms to local, state and Federal regulations.

Section 14 – Transport Information

ICAO / IATA	
Shipping Name	Natural Graphite
Hazard Class	Non Hazardous
Subsidiary Class	NA
UN Number	NA
Packing Group	NA
Marine Transport	Not classified as a hazardous material
Land Transport	Not classified as a hazardous material
Air Transport	Not classified as a hazardous material
Transport Label Required	No label required
Additional Transport Info	Technical Name (N.O.S.): Natural Graphite

Section 15 – Regulatory Information

Not Classified	
Inventory Information:	
EEC EINECS	#231-955-3
US TSCA	Yes
Canada DSL	Yes
Canada NDSL	No
Australian AICS	Yes
Korean ECL	Yes
Asia PAC	Yes
Swiss Giftliste 1	Yes #G8422
IECSC	Yes
New Zealand NZLoC	Yes
REACH: Natural graphite is exempt from REACH registration.	
RoHS: Natural graphite is compliant with the EU RoHS directive	
WEEE: Natural graphite is compliant with the EU waste electrical and electronic equipment directive	

Section 16 – Other Information

HMIS Rating	100
NFP Rating	110

Abbreviations Used:

ACGIH TWA American Council of Government and Industrial Hygienists Time Weighted Average value.
 CAS Chemical Abstracts Service
 NA Not applicable
 N.O.S. Not otherwise specified

APPROVED MATERIAL

 APR 01 2013

 MSDS # 11078
 APPROVED BY [Signature]