Asbury Graphite Mills, Inc.	PO Box 144, 405 Old Main St. Asbury, NJ 08802	908-537-2155
Cummings – Moore Graphite Co.	1646 N. Green Ave. Detroit, MI 48209	313-841-1615
Anthracite Industries	PO Box 112, Sunbury, PA 17801	570-286-2176
Southwestern Graphite	PO Box 876, 2564 Hwy 12 DeQuincy, LA 70633	337-786-5905
Asbury Graphite of California	2855 Franklin Canyon Rd. Rodeo, CA 94572	510-799-3636
Asbury Graphite & Carbons NL B.V.	Fregatweg 46 B-C, Maastricht 6222 NZ Netherlands	+31437600610
Graphitos Mexicanos de Asbury, S.A. de C.V.	Blvd José Maria Morelos No.389 Nte, Hermosillo 83148 Mexico	526622678598

Safety Data Sheet

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

1.1: Product Identification

Trade Name: Natural Graphite 50-85% Carbon **Grade: 963**
Registration Number: Exempted per Annex V
Substance Name: Graphite, CAS 7782-42-5 EC Number: **231-955-3**

1.2: Indentified uses of the substance or mixtures

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: For industrial use only. Not recommended as food or cosmetic additive.

1.3: Supplier Information

Company/Manufacturer: Asbury Carbons, Inc.
PO Box 144, 405 Old Main Street
Asbury, NJ 08802

Telephone: 908-537-2155
Telefax: 908-723-2908
Preparer: AVT
Email Address: albert@asbury.com

1.4: Emergency Telephone Number 1-800-255-3924

Section 2: Hazards Identification

2.1: Classification of substance

Graphite is not a hazardous substance

2.2: Label Elements

Graphite is not a hazardous substance or mixture

2.3: Other hazards

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.

3. Composition/ Information on Ingredients:

Chemical Composition: Carbon variety Graphite 50-85% (balance is inert mineral ash)
CAS # 7784-42-5
EC # 231-955-3
Molecular Weight: 12.0
Formula: C

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, CO2, 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.
Dust Explosibility Hazards:	Natural graphite poses a very slight risk of dust explosion hazard: Dust class ST1, MIE greater that 10 J (very low hazard of spark conflagration)

Section 8 – Exposure Controls/ Personal Protection

Control Parameters	German or US Limits			
Component	**CAS No.**	**%**	**ACGIH TWA**	**Control Reference**
Natural Graphite	7782-42-5	100	2.0 mg/m^3 Respirable dust	2013 ACGIH TLV Handbook
Silica, var Quartz	14808-60-7	0.5-4%	0.025 mg/m^3 Respirable dust	2013 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	Graphite spilled on pedestrian surfaces may pose a significant slip hazard.			

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.

Provision of a European Waste Catalog, waste code number, should be handled in agreement with the regional waste disposal company.

Packaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor.

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**
PICCS	**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

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