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 – Wilkinson	1115 Sutton Drive Burlington, ON, L7L 5Z8 Canada	905-332-0862
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 Identifier

Trade Name: Oolitic Aragonite CAS#14791-73-2
(Calcium carbonate CAS# 471-34-1)

REACH Registration Number: Exempt

Substance Name: Calcium carbonate, variety Aragonite EC Number: 207-439-9 (for calcium carbonate)

1.2: Indentified uses of the substance or mixtures

1.2.1 Uses: Drilling fluid additive, general filler, acid neutralization.

1.2.2 Uses Advised Against: For industrial use only, not for food, drug, or cosmetic applications.

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: RTW
Email Address: rweir@asbury.com
Date Prepared: 10/24/2019

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

Section 2: Hazards Identification

2.1: Classification of substance

Calcium carbonate/Aragonite is not a hazardous substance

2.2: Label Elements

Calcium carbonate/Aragonite is not a hazardous substance, no label elements are required

2.3: Other hazards

None known

Callers must reference the Contract Number:
Chemtel Contract Number: MIS0001931
Collect Calls are accepted
US: 1-800-255-3924
International: +01-813-248-0585.
China: 400-120-0751, Brazil: 0-800-591-6042,
India: 000-800-100-4086 Mexico: 01-800-099-0731.

Section 3 – Composition/Information on Ingredients:

Chemical Composition: Calcium carbonate variety Aragonite, naturally occurring form, 100%.
CAS# 14719-73-2
EC # 207-439-9(calcium carbonate)
Molecular Weight: 80-0

Section 4 – First Aid Measures

4.1.1 Inhalation	Remove patient to particulate-free environment. Wear approved dust mask to avoid breathing dust. Seek medical attention if irritation persists.
4.1.2 Skin contact	Wash with mild soap and warm water: Calcium carbonate variety aragonite is non-staining to skin and is not a chemical irritant, however mechanical irritation is possible
4.1.3 Eye contact	Rinse with tepid water until eyes are clear of particulates. Mechanical irritation is possible if direct contact with eyes occurs. Seek medical attention if irritation persists.
4.1.4 Ingestion	Get immediate medical attention. Do not induce vomiting unless directed by medical personnel. Calcium carbonate/aragonite is not known to be toxic by ingestion. However, ingestion may cause digestive system blockage and irritation. Do not ingest this substance. If large quantities are ingested seek medical attention immediately.
4.3 Indication of any immediate medical attention and special treatment needed: If patient exhibits shortness of breath, choking, powder inundated eyes or mouth; immediate medical attention may be required.	

Section 5 – Fire Fighting Measures

Aragonite is non-combustible	
5.1 Extinguishing Media	Not applicable
5.2 Special Hazards	This substance is not flammable or combustible. When exposed to very high temperatures aragonite, a form of calcium carbonate, may decompose with the evolution of carbon dioxide gas.
Products of decomposition:	Carbon dioxide,CO_2, calcium oxide, CaO, calcium hydroxide, $Ca(OH)_2$
5.3 Advice for Fire Fighters: Use self contained air pack, gloves, safety goggles	
5.4 Additional Information: USA NFP Rating 000	

Section 6 – Accidental Release Measures

	Wear approved dust mask, safety goggles and conventional gloves.

Methods for Cleaning Up:	Conventional Sweep or vacuum. Avoid creating dusting conditions
6.1 Personal precautions , protective equipment and emergency procedures	
6.1.1 For non-emergency personnel: Wear approved dust mask, safety goggles, and conventional work gloves. Use conventional cleanup techniques and avoid creating dust. Vacuum is preferred over sweeping. Wear a dust mask/respirator to reduce the change of inhaled dust.	
6.1.2 For emergency responders: Wear approved dust mask, safety goggles, and conventional work gloves. Same methodology as for non-emergency personnel(sec 6.1.1)	
6.2 Environmental Precautions: Aragonite, a naturally occurring form of calcium carbonate 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.	
6.3 Methods and material for containment and clean up: No special containment needed other than conventional vacuuming and waste containment. Avoid creating dust.	
6.4 Reference to other sections: Not needed 6.5 Additional information: Not needed	

Section 7 – Handling and Storage

7.1 Precautions for safe handling

7.1.1 Handling Use conventional methods, but avoid dusting conditions. Keep powder from contacting eyes and avoid breathing aragonite dust.
7.2 Conditions for safe storage, including any incompatibilities.
Storage and Incompatibilities: When in contact with acidic media, calcium carbonate will decompose to form calcium hydroxide and carbon dioxide gas. In an enclosed area, carbon dioxide levels can build up to levels that will cause asphyxiation and death. In sealed containers, contact with acids will result in the release of carbon dioxide gas, which can result in catastrophic pressure failure that may lead to serious injury or death.
Dust Explosibility Hazards: Aragonite does not present a dust explosibility hazard.

Section 8 – Exposure Controls/ Personal Protection

8.1 Control parameters

8.1.1 Occupational exposure limits				
Component	CAS No.	%	OSHA PEL	Control Reference
Calcium carbonate, variety Aragonite	CAS#14791-73-2	100	15 mg/m^3 for total dust. 5 mg/m^3 Respirable fraction (calcium carbonate)	2016 ACGIH Guide to Occupational Exposure Values for Calcium Carbonate
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			

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Use adequate dust collection to maintain dust levels below the control or recommended values.
8.2.2 Personal protective equipment 8.2.2.1 Eye/Face Protection: Wear laboratory goggles, or full side shielded safety glasses. 8.2.2.2 Skin Protection: Conventional work gloves and clothing. 8.2.2.3 Respiratory Protection: Approved dust mask, type N95 recommended.
8.2.3 Environmental exposure controls: To the best of our knowledge, the mineral aragonite, a variety of calcium carbonate, does not present an environmental hazard. No special environmental exposure controls, other than standard practices for dust release and spill control, are required.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Color:	White to Grey	Material State	Solid, granular or powder
Odor	None		
Boiling Point:	NA	Melting Point	Decomposed above 825 °C
Specific Gravity	2.9	Vapor Density	Not applicable
Vapor Pressure (mm Hg)	NA	% Volatile (By Wt.)	No volatile organic components
Solubility in Water	0.015g/L @ 25 °C	Evaporation Rate:	Not applicable
pH	9.4 @ saturation	Auto Ignition	Not applicable
Decomposition Temp	Above 825 °C loss of carbon dioxide. Conversion to hexagonal calcite form at 525 °C.	Dust Explosion class	Not applicable
Flash Point	Non combustible solid.		

Section 10 – Stability and Reactivity

10.1 Reactivity	Aragonite is non-reactive under standard conditions.
10.2 .Stability	Stable. Will not polymerize or self react spontaneously.
10.3 Possibility of hazardous reactions	Will react with acedic media with the evolution of carbon dioxide gas.
10.4 Conditions to Avoid	Avoid unintentional contact with acidic media.
10.5 Incompatible materials	Acidic media: When in contact with acidic media calcium carbonate will decompose to form calcium hydroxide and carbon dioxide gas. In an enclosed area, carbon dioxide levels can build up to levels that will cause asphyxiation and death. In sealed containers the release of carbon dioxide can result in catastrophic pressure failure which may lead to serious injury or death.
10.6 Hazardous products of decomposition	Carbon Dioxide (CO_2), Calcium Oxide(CO), Calcium Hydroxide($Ca(OH)_2$).
Flammable Limits (% by Vol.)	LEL and UEL values not applicable. Aragonite, a variety of calcium carbonate, is not flammable or combustible. .

Section 11 – Toxicological Information
11.1 Information on toxicological effects

Toxicological information about Aragonite: It is generally accepted that aragonite, a form of calcium carbonate, is non-toxic. However, ingestion of large quantities of aragonite may cause irritation of the gastrointestinal system and/or physical blockage of the alimentary canal.

Aspiration hazard: Solid substance. Based on available data the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics:

In case of ingestion: It is generally accepted that aragonite, a form of calcium carbonate is non-toxic. However, ingestion of large quantities of aragonite may cause irritation of the gastrointestinal system and/or physical blockage of the alimentary canal.
In case of skin contact: Mechanical irritation is possible.
In case of inhalation: Inhalation may result mechanical irritation of the respiratory tract. No symptoms are expected if relevant occupational exposure levels are adhered to. In situations of repeated excessive lung overload due to a high airborne concentration of particles of respirable size for extended periods of time pneumoconiosis may develop. See section 4 for first aid measures.
In case of eye contact: Mechanical irritation is possible and likely.

Section 12 – Ecological Information

12.1 Toxicity:	Aragonite, a form of calcium carbonate, is not considered a toxic material.
12.1.1 Aquatic Toxicity: Data not available. Aragonite, a form of calcium carbonate, has very low solubility in aqueous media, 0.015g/L @ 25 °C, and is not considered toxic. Dissolved calcium carbonate is a component of many natural aqueous systems including fresh water and salt water environments. To the best of our knowledge, only a slight increase in pH will result if aragonite is added to water.	
12.1.2 Sediment toxicity: None known.	
12.1.3 Terrestrial toxicity: None known.	
12.2 Persistence and degradability: Aragonite is a naturally occurring form of calcium carbonate will not degrade further under normal conditions.	
12.3 Bioaccumulation potential: There is no evidence indicating that aragonite is bioaccumulative.	
12.4 Soil Mobility: Aragonite, a naturally occurring form of calcium carbonate, is not a mobile substance and is expected to have no mobility in soil.	
12.5 PBT and vPvB assessment: Aragonite is not a persistent bioaccumulative and toxic substance.	
12.6 Other adverse effects: None known. Aragonite has no ozone depleting components.	

Section 13 – Disposal Considerations

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

Aragonite, a form of naturally occurring calcium carbonate, is non-hazardous but disposal of aragonite waste should be handled in a responsible matter.

Packaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor. Dust formation from packaging residues should be avoided. Store empty packaging in a suitable receptacle

Section 14 – Transport Information

14.1 UN Number	Not applicable
14.2 UN Proper shipping name	Not applicable
14.3 Transport hazard class	Not applicable
14. 4 Packing Group	Not applicable
14.5 Environmental hazards	None known
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.

Section 15 – Regulatory Information

15.1 Regulatory Status and Inventories

Not Classified	
Inventory Information:	
EEC EINECS	#207-439-9 (for calcium carbonate)
US TSCA	Yes
Canada DSL	Yes (Calcium carbonate)
Canada NDSL	No
Australian AICS	Yes (Calcium carbonate)
Korean ECL	Yes (Calcium carbonate)
New Zealand NZLoC	Yes (Calcium carbonate)
PICCS (Philippines)	Yes (Calcium carbonate)
ASIA-PAC	Yes (Calcium carbonate)
ENCS Japanese Gazette	Yes (Calcium carbonate)
REACH: Aragonite is exempt from REACH registration per Annex V.	
RoHS: Aragonite is compliant with the EU RoHS directive	
WEEE: Aragonite is compliant with the EU waste electrical and electronic equipment directive	
15.2 Chemical Safety Assessment: Not available.	
SARA Hazard Category 311/312 Not hazardous	
SARA 313: No content of SARA 313 substances	
California Proposition 65: This product contains the following substance known to the State of California to cause cancer: Crystalline silica < 0.04%	

Section 16 – Other Information

Abbreviations Used:

ACGIH TWAAmerican Council of Government and Industrial Hygienists Time Weighted Average value.

CAS Chemical Abstracts Service
NA Not applicable
N.O.S. Not otherwise specified
BW Body weight