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:	Aluminum degassing tablet 185	Grade: Degasser 185
Substance Name:	Hexachloroethane	CAS#67-72-1

1.2: Indentified uses of the substance or mixtures

1.2.1 Uses: Degassing inoculant for metallurgical applications only

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: AVT
Email Address: albert@asbury.com
Date Prepared: 3/22/2016

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

Section 2: Hazards Identification

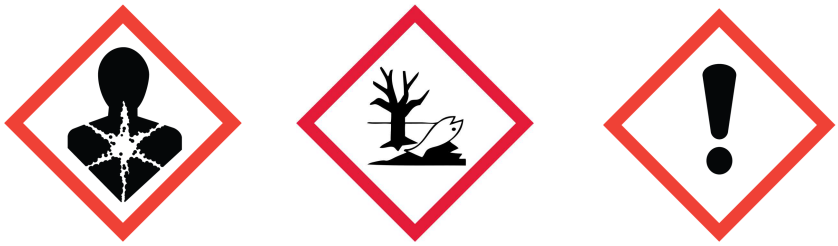
2.1: Classification of substance

This mixture is classified as a hazardous substance in accordance with 29 CFR1910(OSHA HCS)

2.2: Label Elements

Hazard Statements
Acute aquatic toxicity: Aquatic acute
Chronic aquatic toxicity: Aquatic chronic
Carcinogenicity: Carcinogen
Eye Irritation: Irritant

2.2 GHS Label Elements: Pictograms



Hazard statements:
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapors or spray.
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area.
P273 Material MUST NOT be released into the environment.
P280 Wear protective gloves, eye protection, and face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P308 + P313 If exposed or concerned: Get medical advice/ attention.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 If skin irritation occurs: Get medical advice/ attention.
P337 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store in a secure and locked location.
P501 Dispose of contents/container to an approved waste disposal plant.

Section 2: Hazards Identification continued

2.3 Other Hazards: None known.

NFPA Rating:
Health 2
Fire 0
Reactivity 0

Section 3 – Composition/Information on Ingredients:
Chemical Composition:
Hexachloroethane, 100%
CAS# 67-72-1

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. Consult a physician for excessive skin contact events or is irritation occurs.
4.1.3 Eye Contact	Rinse with tepid water for 15 minutes and until eyes are clear of particulates. Seek medical attention.
4.1.4	Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.
4.2 Most important symptoms and effects, both acute and delayed are described in the labeling or in Section 11.	
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

This mixture is not flammable under normal conditions	
5.1 Extinguishing Media	Dry chemical extinguisher, water spray, or carbon dioxide.
5.2 Special Hazards	Toxic fumes are emitted when exposed to high temperature of fire conditions.
Products of Combustion:	Carbon dioxide, CO_2, carbon monoxide, CO, hydrogen chloride, HCl, Phosgene, $COCl_2$
5.3 Advice for Fire Fighters: Use self contained air pack, gloves, safety goggles	
5.4 Additional Information: USA NFPA Rating 200	

Section 6 – Accidental Release Measures

	Wear approved dust mask, safety goggles, and conventional work gloves.
Methods for Cleaning Up:	Conventional Sweep or vacuum. Avoid creating dusting conditions
6.1 Personal precautions, protective equipment and emergency procedures to avoid breathing dust, vapors, mist or gas. Evacuate personnel to safe, well ventilated area.	
6.1.1 For non-emergency personnel: Wear approved dust inhalation prevention equipment , safety goggles, and skin protection. Use vacuum for cleaning up to prevent dust formation. Wear a dust mask/respirator to reduce the chance of inhaled dust.	
6.1.2 For emergency responders: Wear approved dust mask, safety goggles, and skin protection. Same methodology as for non-emergency personnel(sec 6.1.1)	
6.2 Environmental Precautions: This product is highly toxic to the environment and must not be released in the environment, natural waterways, or public sewers. Good housekeeping practices must 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: Careful sweeping or vacuuming and waste containment. Avoid creating dust. Keep spent or clean up material in a closed container for disposal.	
6.4 Reference to other sections: See section 13 for disposal information. 6.5 Additional information: Not needed	

Section 7 – Handling and Storage

7.1 Precautions for safe handling

7.1.1 Handling Avoid handling in any way which results in the creation dust. Keep powder from contacting eyes, skin or clothing. Do not ingest. Keep soiled hands and clothing away from face and mouth. Use only for applications this product was intended for.
7.2 Conditions for safe storage, including any incompatibilities.
Storage and Incompatibilities Store in a dry location. During storage avoid excessive heat. Incompatible with strong alkalies.
Dust Explosibility Hazards: Not known

Section 8 – Exposure Controls/ Personal Protection

8.1 Control parameters

8.1.1 Occupational exposure limits				
Component	CAS No.	%	ACGIH TWA	Control Reference
Hexachloroethane	67-72-1	100	1.0mg/m^3	2016 ACGIH TLV Handbook Potential liver and kidney damage.
Engineering Measures	Use adequate dust collection to maintain dust levels below the control or recommended values.			
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls if the respirator is the sole means of protection use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).			
Eye Protection	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).			
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.			
Additional	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be prevented.			

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Color:	White	Material State	Solid tablet
Odor	Camphor like		
Boiling Point:	Sublimates	Melting Point	Sublimates
Specific Gravity	2.1	Vapor Density	NA
Vapor Pressure (mm Hg)	NA	% Volatile (By Wt.)	NA
Solubility in Water	Insoluble	Evaporation Rate:	Not applicable
pH	NA	Auto Ignition	NA
Decomposition Temp	NA	Dust Explosion class	NA
Flash Point	NA (Solid substance)		

Section 10 – Stability and Reactivity

10.1 Reactivity	Can react violently with metals and strong alkalies materials under some conditions.
10.2 .Stability	Will not polymerize, but may self react spontaneously.
10.3 Possibility of hazardous reactions	Can react violently with metals and strong alkalies materials under some conditions.
10.4 Conditions to Avoid	Avoid contact with oxidizing agents, strong alkalies, metals.
10.5 Incompatible materials	Alkalies, metals.
10.6 Hazardous products of decomposition	Carbon dioxide, CO_2, carbon monoxide, CO, hydrogen chloride, HCl, Phosgene, $COCl_2$
Flammable Limits (% by Vol.)	NA

Section 11 – Toxicological Information

11.1 Information on toxicological effects:

LD50 Oral - guinea pig - 4,970 mg/kg
TDLo Oral - rat - female - 5,500 mg/kg
TDLo Oral - rat - 6,944 mg/kg
Remarks: Liver: Changes in liver weight. Kidney, Ureter, Bladder: Changes in tubules (including acute renal failure, acute tubular necrosis). Kidney, Ureter, Bladder: Other changes.

TDLo Oral - rat - 48,750 mg/kg
Remarks: Brain and Coverings: Other degenerative changes. Liver: Changes in liver weight. Kidney, Ureter, Bladder: Other changes.

TDLo Oral - rabbit - 12,000 mg/kg
Remarks: Liver: Other changes. Kidney, Ureter, Bladder: Other changes.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
Inhalation: Behavioral: Muscle weakness.

LD50 Dermal - rabbit - 32,000 mg/kg
LD50 Intraperitoneal - mouse - 4,500 mg/kg
LDLO Intraperitoneal - rat - 2,900 mg/kg
LDLO Intravenous - dog - 325 mg/kg

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.
.
Germ cell mutagenicity
Hamster - ovary sister chromatid exchange

Carcinogenicity
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies IARC: 2B - Group 2B: Possibly carcinogenic to humans (Hexachloroethane)

NTP: Reasonably anticipated to be a human carcinogen (Hexachloroethane)

Reproductive toxicity: No data available Specific target organ toxicity - single exposure: No data available
Aspiration hazard: Solid substance. No data available

Section 12 – Ecological Information

12.1 Toxicity:	

12.1.1 Aquatic Toxicity:

Aquatic toxicity	Effect dose	Exposure time	Method	Remarks
Acute fish toxicity	NOEC 1mg/l	96 hour		Cypinodon variegatus (sheepshead minnow)
Acute daphnia toxicity	LC50 1.36mg/l	48 hour		Daphnia magna (Water flea)

12.1.2 Sediment toxicity: Very toxic to aquatic life with long lasting effects.
12.1.3 Terrestrial toxicity: Very toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability: This product is not biodegradable (OECD Test Guideline 301)
12.3 Bioaccumulation potential: No data available. Very toxic to aquatic life with long lasting effects.
12.4 Soil Mobility: No data available.
12.5 PBT and vPvB assessment: Assessment not available.
12.6 Other adverse effects: Very toxic to aquatic life with long lasting effects.

Section 13 – Disposal Considerations

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

Dispose of unused material and contaminated packaging through a licensed disposal company only. Dissolve or mix the material with a combustible solvent and burn in a licensed and hazardous-waste-disposal approved chemical incinerator equipped with an after burner and scrubber.

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	3077
14.2 UN Proper shipping name	Environmentally Hazardous Substances, Solid, NOS (Hexachloroethane)
14.3 Transport hazard class	Not applicable
14. 4 Packing Group	III
14.5 Environmental hazards	None known
Marine Transport	Environmentally Hazardous Substances, Solid, NOS (Hexachloroethane)
Land Transport	Environmentally Hazardous Substances, Solid, NOS (Hexachloroethane)
Air Transport(IATA)	Environmentally Hazardous Substances, Solid, NOS (Hexachloroethane)
DOT Transport Label Required	Class 9

Section 15 – Regulatory Information

15.1 Regulatory Status and Inventories

Not Classified	Hazardous Substance
Inventory Information:	
EEC EINECS	200-666-4
US TSCA	Yes
Canada DSL	Yes
Canada NDSL	No
Australian AICS	Yes
Korean ECL	Yes
Mexico INSQ	Yes
Swiss Giftliste 1	Yes
Japanese ENCS	Yes
PICCS	Yes
New Zealand NZLoC	Yes
CERCLA Priority List of Hazardous Substances: Yes	
RCRA Halogenated Organic Compounds: Yes	
RCRA Land Disposal Restrictions: Restricted, check with waste disposal contractor for proper handling and disposal.	
SARA Title III Extremely Hazardous Substances: Yes	
SARE 313 Toxic Chemicals: This substance is on the list of toxic chemicals subject to reporting under Section 313 of the Emergency Planning and Community Right-To-Know Act.	
State Right to Know Inventory: California Prop 65, Illinois, Massachusetts, Michigan, Minnesota, New Jersey, New York, Pennsylvania, Rhode Island,	
15.2 Chemical Safety Assessment: For this substance a chemical safety assessment has not been performed.	

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 available
N.O.S.	Not otherwise specified
NOEC	No observed effects concentration