



Asbury Graphite Mills, Inc.
Cummings – Moore Graphite Co.
Anthracite Industries
Southwestern Graphite
Asbury Graphite of California
Asbury – Wilkinson
Asbury Graphite & Carbons NL B.V.
Graphitos Mexicanos de Asbury,
S.A. de C.V.

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Safety Data Sheet

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

1.1: Product Identifier

Trade Name: Complex Mixture Grade: Marcote #5

Substance Name: CAS Numbers: See Section 3 EC Numbers: See Section 3

1.2: Identified uses of the substance or mixtures

1.2.1 Uses: Foundry coating applications

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: 12-11-2015
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1.4: Emergency Telephone Number 1-800-255-3924



Section 2: Hazards Identification

2.1: Classification of substance:

2.1.1 Under certain conditions this mixture may be considered hazardous according to OSHA 29 CFR 1910.1200.

2.1.2 This mixture is not classified as hazardous substances per European hazardous classification.

2.2: Label Elements

Hazard Statement: H373 may cause damage to lung through prolonged or repeated inhalation.

Precautionary Statement: P260: do not breath dust

P285: In case of inadequate ventilation wear respiratory protection.



2.3: Other hazards

None known

Section 3 – Composition/Information on Ingredients:

Chemical Composition:

Iron Oxide, Fe_2O_3 , 0-10%

CAS # 1309-37-1, EC # 215-168-2

Molecular Weight: 159.7

Silica, Crystalline Silica, variety Quartz 0.5-1.0% (may or may not be in respirable form)

CAS # 14808-60-7, EC # 238-878-4

Molecular Weight: 60.0

Talc, 50-80%

CAS# 14807-96-6, EC# 238-877-9

Molecular Weight: 379

Calcium carbonate, precipitated, CaCO_3 , 10-30%

CAS# 471-34-1

Molecular Weight: 80.0

Dextrin (naturally occurring sugar), 0-10%

CAS# 9004-53-9



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: This mixture is non-staining to skin.
4.1.3 Eye Contact	Rinse with tepid water until eyes are clear of particulates. Seek medical attention if irritation persists.
4.1.4 Ingestion	Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed: No Data Available

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.	
5.1 Extinguishing Media	Water spray, carbon dioxide, sand.
5.2 Special Hazards	None known. This mixture may contain as much as 10 percent dextrin, which is a complex sugar. This is the only combustible component of the mixture. As a result of the low dextrin content it is unlikely that this material will ignite, however under conditions of fire, smoldering or “off gassing” may occur.
Products of Combustion:	
5.3 Advice for Fire Fighters:	Use self contained air pack, gloves, safety goggles
5.4 Additional Information:	USA NFPA Rating 010

Section 6 – Accidental Release Measures

Methods for Cleaning Up:	Wear approved dust mask, safety goggles, and conventional work gloves.
	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. Be cautious of slip hazard on wet or dry pedestrian surfaces. Wear a dust mask/respirator to reduce the change of inhaled dust.	
6.1.2 For emergency responders: Wear approved dust mask, chemical goggles, and conventional work gloves. Same methodology as for non-emergency personnel(sec 6.1.1)	
6.2 Environmental Precautions: This mixture is not hazardous and is not expected to represent an environmental hazard. However, do not allow this mixture to enter waterways or ground water. Good housekeeping practices must be followed and spilled material should be cleaned up, and disposed of in a responsible and 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. Provide sufficient exhaust ventilation in areas where dust is created. Wear suitable respiratory protection. Keep powder from contacting eyes. The talc portion of this mixture may present a slip hazard when deposited on pedestrian surfaces.

7.2 Conditions for safe storage, including any incompatibilities.

Storage: Keep packaging closed or covered.

Incompatibilities: None known.

Dust Explosibility Hazards: Non combustible

Section 8 – Exposure Controls/ Personal Protection**8.1 Control parameters: Follow workplace regulatory exposure limits for all types of airborne dust.**

8.1.1 Occupational exposure limits: The occupational exposure limits posted here are from ACGIH. For equivalent values of other countries please consult a verified source for local regulatory exposure limit values.

Component	CAS No.	%	ACGIH TWA	Control Reference
Iron oxide	1309-37-1	0-10	5.0 mg/m ³ Respirable dust	2014 ACGIH TLV Handbook
Silica (quartz, not intentionally added)	14808-60-7	0-1	0.025 mg/m ³ Respirable dust	2014 ACGIH TLV Handbook
Talc	14807-96-6	50-80	2.0 mg/m ³ Respirable dust 10.0 mg/m ³ Inhalable dust	2014 ACGIH TLV Handbook
Calcium carbonate	471-34-1	10-30	15 mg/m ³ total dust 5 mg/m ³ Respirable particles	2014 ACGIH Guide to Occupational Exposure Values
Dextrin	9004-60-7	0-10	15 mg/m ³ total dust	Assume value for sucrose 2014 ACGIH Guide to Occupational Exposure Values
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 chemical goggles.			
Skin Protection	Conventional work gloves and clothing.			
Additional	May cause slip hazard when present on pedestrian surfaces.			

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: Do not allow this mixture to enter waterways or ground water.



Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Color:	Red/tan powder	Material State	Solid, granular or powder
Odor	None		
Boiling Point:	NA	Melting Point	Above 500 C
Specific Gravity	Not available	Vapor Density	Not applicable
Vapor Pressure (mm Hg)	NA	% Volatile (By Wt.)	1-10
Solubility in Water	Partial solubility	Evaporation Rate:	Not applicable
pH	NA	Auto Ignition	Not applicable
Decomposition Temp	Above 450 C	Dust Explosion class	NA
Flash Point	Not applicable.		

Section 10 – Stability and Reactivity

10.1 Reactivity	Non-reactive under ambient conditions.
10.2 .Stability	Stable. Will not polymerize or self react spontaneously.
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to Avoid	May absorb moisture when atmospheric humidity level is elevated.
10.5 Incompatible materials	Not known
10.6 Hazardous products of decomposition	Not known
Flammable Limits (% by Vol.)	Non-combustible

Section 11 – Toxicological Information

11.1 Information on toxicological effects: Not available.

Note on Crystalline Silica: Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (*IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.*)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (*SCOEL SUM Doc 94-final, June 2003*).

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



Section 11 – Toxicological Information, continued:

Symptoms related to the physical, chemical and toxicological characteristics:

In case of ingestion: This mixture is not expected to present an ingestion hazard other than the potential for gastrointestinal irritation or blockage.

In case of skin contact: This mixture is not a chemical irritant but may cause mechanical irritation or irritation in those with sensitivity to talc, limestone, or iron oxide.

In case of inhalation: 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: This mixture is not a chemical irritant but may cause mechanical irritation.

Section 12 – Ecological Information

12.1 Toxicity:	Information not available. This mixture is not expected to present any environmental toxicity hazards.		
12.1.1 Aquatic Toxicity:	No information is available.		
12.1.2 Sediment toxicity:	None known.		
12.1.3 Terrestrial toxicity:	None known.		
12.2 Persistence and degradability:	Information not available.		
12.3 Bioaccumulation potential:	There is no evidence indicating that Marcote#5 is bioaccumulative.		
12.4 Soil Mobility:	Dextrin sugar is water soluble and may be transported through soil via solution. The other components of the mixture are insoluble and therefore will not exhibit soil or ground water mobility.		
12.5 PBT and vPvB assessment:	Marcote#5 is not a persistent bioaccumulative and toxic substance.		
12.6 Other adverse effects:	None known. Marcote#5 has no ozone depleting potential.		

Section 13 – Disposal Considerations

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

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	Added Ingredients		
Inventory Information:	Iron Oxide	Talc	Calcium Carbonate
EEC EINECS	215-168-2	238-877-9	207-439-9
US TSCA	Yes	Yes	Yes
Canada DSL	Yes	Yes	Yes
Canada NDSL	No	No	No
Australian AICS	Yes	Yes	Yes
Korean ECL	Yes	Yes	Yes
Asia PAC	No	Yes	Yes
Swiss Giftliste	Yes	Yes	Yes
Japan ENCS	Yes	Not known	Yes
China IECSC	Yes	Not known	Not known
PICCS	Yes	Yes	Yes
New Zealand NZLoC	Yes	Yes	Yes
Mexico INSQ	Yes	Not known	Not known

Section 16 – Other Information

Abbreviations which may be 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
BW	Body weight

