ASBURY CARBONS Safety Data Sheet

Graphokote 902

Revision Date August 17, 2016

1. IDENTIFICATION

Product Information

Trade Name	Graphokote 902
Product Description	Industrial refractory coating containing vermiculite
Recommended Uses	Refractory coating for use metal casting molds, gates and runners

Company

Cummings-Moore Graphite Co. (a division of Asbury Carbons, Inc.)
1646 N.Green Ave.
Detroit, MI 48209

Emergency Telephone

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
ChemTel contract number: MIS0001931 (collect calls accepted)

Information Phone	1-908-537-2155
Website	www.asbury.com

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE CANCER.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1C
SERIOUS EYE DAMAGE	1
CARCINOGENICITY	1A

PICTOGRAM(S)

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial, and local governmental regulations.

4 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Ceramic binder	Proprietary	10 - 30
Mica	12001-26-2	5 - 10
Vermiculite	Proprietary	1 - 5
Quartz (SiO2)	14808-60-7	1 - 5

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Immediately wash skin thoroughly with soap and water. Immediately remove soiled or soaked clothing. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.

Eye contact: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

Ingestion: Immediate medical treatment necessary. Give one to two glasses of water or milk. Do not induce vomiting. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide. In case of fire, keep containers cool with water spray.

Special firefighting procedures: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Unusual fire or explosion hazards: Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

Hazardous combustion products: Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area, and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage. Wear appropriate protective equipment and clothing during clean up. Do not allow product to enter sewer or waterways.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Wear suitable protective clothing, safety glasses, and gloves.

Storage: For safe storage, store between 5.0 °C (41°F) and 30.0 °C (86°F). Keep container closed. Store in a cool, dry, well-ventilated area. Protect from direct sunlight. **THIS PRODUCT FREEZES AT 0°C (32°F). DO NOT FREEZE!**

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ceramic binder	None	None	None	None
Mica	3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA	None	None
Vermiculite	None	None	None	None

Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Eye/face protection: Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection: Suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Tan
Odor: Odorless
Odor threshold: Not available
pH: >= 10
Vapor pressure: 17.6 mm hg None
Boiling point/range: >= 100 °C (>= 212°F)
Freezing point: 0°C (32°F)
Specific gravity (Relative Density): 1.30 – 1.36
Vapor density: Not available
Flash point: Not applicable
Flammability: Not applicable
Flammable/Explosive limits - lower: Not available
Flammable/Explosive limits - upper: Not available
Autoignition temperature: Not applicable
Evaporation rate: Not determined
Solubility in water: Disperses in water as a suspension
Partition coefficient (n-octanol/water): Not determined
VOC content: None
Viscosity: Not applicable
Decomposition temperature: Not available

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

Incompatible materials: Acids.

Reactivity: Not available.

Conditions to avoid: Excessive heat. Freezing conditions.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact: This product is severely irritating to the skin and may cause burns. Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.
Eye contact: This product may be severely irritating to the eyes. Contact with this product may cause severe eye irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Ceramic binder	Oral LD50 (RAT) = 1,100 - 1,600 mg/kg Oral LD50 (RAT) = 1.1 g/kg	Corrosive, Irritant
Mica	None	Lung
Vermiculite	None	Respiratory
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ceramic binder	No	No	No
Mica	No	No	No
Vermiculite	No	No	No
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 313: None above reporting de minimis

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

The information contained herein is accurate to the best of our knowledge. Asbury Carbons makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0