

## Graphokote 340

Revision Date May 25, 2021

### 1. Product and Company Identification

|                            |   |
|----------------------------|---|
| <b>Product Information</b> |   |
| Trade Name                 | Graphokote 340  |
| Product Description        | Oil-based graphite dispersion   |
| Recommended Uses           | Lubricant   |
| <b>Company</b>             | Cummings-Moore Graphite Co. (a division of Asbury Carbons Inc.)<br>1505 Cedar Street, Port Huron, MI 48060  |
| <b>Emergency Telephone</b> | US: 1-800-255-3924; International: +01-813-248-0585; China: 400-120-0751;<br>Brazil: 0-800-591-6042; India: 000-800-100-4086; Mexico: 01-800-099-0731<br>ChemTel contract number: MIS0001931 (collect calls accepted) |
| Information Phone          | 1-908-537-2155  |
| Website                    | www.asbury.com  |

### 2. Hazards Identification

|                       |   |
|-----------------------|---|
| <b>Classification</b> | Not a hazardous substance                                 |
| <b>Labeling</b>       | Not a hazardous substance, no label elements are required |

### 3. Composition / Information on Ingredients

| Components   | CAS No.    | Weight % | Hazard Code(s) |
|--|------------|----------|----------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 65%      | --             |
| Graphite   | 7782-42-5  | 35%      | --             |

### 4. First Aid Measures

|   |  |
|---|--|
| <b>Inhalation</b>                             | Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.  |
| <b>Skin Contact</b>                           | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention. |
| <b>Eye contact</b>                            | Flush thoroughly with water. If irritation occurs, get medical assistance.   |
| <b>Ingestion</b>                              | Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a poison control center immediately.   |
| <b>Symptoms / effects (acute and delayed)</b> | Defatting of the skin.   |

### 5. Fire Fighting Measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>          | Halon. Dry chemicals. Foam. Carbon dioxide (CO <sub>2</sub> ). Water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire.    |
| <b>Unsuitable extinguishing media</b>        | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Special fire hazards</b>                  | No unusual fire or explosion hazards noted. Flammability Class: Combustible IIIB   |
| <b>Products of Combustion</b>                | Smoke, fume, incomplete combustion products, carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO).  |
| <b>Protective equipment for firefighters</b> | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. |
| <b>NFP Rating</b>                            | 110  |

## 6. Accidental Release Measures

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.  |
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.  |
| <b>Methods for cleaning up</b>   | Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth or absorbent material then place into containers. Following product recovery, flush area with water.<br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br>Never return spills in original containers for re-use. For waste disposal, see section 13. |

## 7. Handling and Storage

|                                      |   |
|--------------------------------------|---|
| <b>Precautions for safe handling</b> | Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly. |
| <b>Storage precautions</b>           | Keep away from heat, sparks and open flame. Store in a well-ventilated place.   |

## 8. Exposure Controls/ Personal Protection

| Ingredients with control parameters / occupational exposure limits |   |                       |                        |
|--|---|-----------------------|------------------------|
| Component  | CAS No.   | TWA                   | Control Reference      |
| Distillates (petroleum), hydrotreated heavy naphthenic             | 64742-52-5  | 5 mg/m <sup>3</sup>   | Inhalable mist, ACGIH  |
| Graphite   | 7782-42-5   | 2.0 mg/m <sup>3</sup> | Respirable dust, ACGIH |
| <b>Engineering controls</b>  | Adequate ventilation should be provided whenever the material is heated or mists are generated. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |                       |                        |
| <b>Respiratory Protection</b>                                      | Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  |                       |                        |
| <b>Eye Protection</b>  | Goggles/face shield are recommended.  |                       |                        |
| <b>Skin Protection</b>   | Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.   |                       |                        |
| <b>Hygiene measures</b>  | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.  |                       |                        |

## 9. Physical and Chemical Properties

|                              |                                       |                              |               |
|------------------------------|---------------------------------------|------------------------------|---------------|
| <b>Appearance</b>            | Gray to black liquid                  | <b>Lower explosion limit</b> | Not available |
| <b>Odor</b>                  | Mild petroleum                        | <b>Upper explosion limit</b> | Not available |
| <b>pH</b>                    | Not applicable                        | <b>Vapor pressure</b>        | Not available |
| <b>Freezing point</b>        | < 25 °F (< -3.89 °C)                  | <b>Vapor density</b>         | > 5           |
| <b>Initial boiling point</b> | > 650 °F (> 343.33 °C)<br>ASTM D 2887 | <b>Water solubility</b>      | Insoluble     |

|                         |  |   |  |
|-------------------------|--|---|--|
| <b>Flash point</b>      | $\geq 400.0\text{ }^{\circ}\text{F}$ ( $\geq 204.4\text{ }^{\circ}\text{C}$ )<br>ASTM D 92 | <b>Partition coefficient:<br/>n-octanol/water</b> | Not established  |
| <b>Evaporation rate</b> | Not available  | <b>Autoignition<br/>temperature</b>               | $> 600\text{ }^{\circ}\text{F}$ ( $> 315.56\text{ }^{\circ}\text{C}$ )<br>ASTM E 659 |
| <b>Specific gravity</b> | 1.16 g/ml  | <b>% solids by weight</b>                         | 35%  |

## 10. Stability and Reactivity

|   |  |
|---|--|
| <b>Chemical stability</b>                 | The product is stable and non-reactive under normal conditions of use, storage and transport.                    |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization will not occur.   |
| <b>Conditions to avoid</b>                | Heat, flames and sparks. Avoid temperatures exceeding the flash point.   |
| <b>Materials to avoid</b>                 | Strong oxidizers   |
| <b>Hazardous decomposition products</b>   | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

## 11. Toxicological Information

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|--|--|
| <b>Acute oral toxicity</b>               | Not classified.  |
| <b>Acute inhalation toxicity</b>         | Not classified.  |
| <b>Acute dermal toxicity</b>             | Not classified.  |
| <b>Skin corrosion/irritation</b>         | Not classified.  |
| <b>Eye damage/irritation</b>             | Not classified. May be irritating to eyes.   |
| <b>Respiratory or skin sensitization</b> | Not classified. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.   |
| <b>Mutagenicity</b>                      | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.   |
| <b>Carcinogenicity</b>                   | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. |
| <b>Reproductive toxicity</b>             | Contains no ingredient listed as toxic to reproduction.  |
| <b>STOT - single exposure</b>            | Not classified. May cause irritation to the respiratory system.  |
| <b>STOT - repeated exposure</b>          | Not classified – skin.   |
| <b>Aspiration hazard</b>                 | Not applicable.  |
| <b>Chronic effects</b>                   | Prolonged or repeated contact may cause drying, cracking, or irritation of the skin.   |

## 12. Ecological Information

|                        |  |
|------------------------|--|
| <b>Ecotoxicity</b>     | Not expected to be harmful to aquatic organisms.   |
| <b>Biodegradation</b>  | Not inherently biodegradable.  |
| <b>Bioaccumulation</b> | Bioaccumulation is unlikely to be significant because of the low water solubility of this product. |
| <b>Mobility</b>        | Not available.   |

## 13. Disposal Considerations

|                               |   |
|-------------------------------|---|
| <b>Material Disposal</b>      | When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. |
| <b>Regulatory Information</b> | Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.   |
| <b>Packaging Disposal</b>     | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.   |

#### 14. Transport Information

|                        |                                      |
|------------------------|--------------------------------------|
| UN number              | Not regulated                        |
| Proper shipping name   | n/a                                  |
| Transport hazard class | n/a                                  |
| Packing group          | n/a                                  |
| Marine pollutant?      | Not classified as a marine pollutant |

#### 15. Regulatory Information

|  |  |                   |             |
|--|--|-------------------|-------------|
| Listed / complies with the following chemical inventories: | DSL, IECSC, TSCA, EINECS, KECI, PICCS, AICS  |                   |             |
| SARA (311/312) Hazard Classifications                      | None.  |                   |             |
| SARA (313) Toxic Release Inventory:                        | This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program. |                   |             |
| The following ingredients are cited on the lists below:    |  |                   |             |
| Chemical Name  | CAS Number   | List Citations    |             |
| Graphite   | 7782-42-5  | 1, 12, 16, 17, 18 |             |
| Regulatory lists searched:                                 |  |                   |             |
| 1 = ACGIH ALL  | 6 = TSCA 5a2   | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1   | 7 = TSCA 5e  | 12 = CA RTK       | 17 = NJ RTK |
| 3 = ACGIH A2   | 8 = TSCA 6   | 13 = IL RTK       | 18 = PA RTK |
| 4 = OSHA Z   | 9 = TSCA 12b   | 14 = LA RTK       | 19 = RI RTK |
| 5 = TSCA 4   | 10 = CA P65 CARC   | 15 = MI 293       | 20 = MA RTK |

#### 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. |                    |   |  |
| NFPA Classification  | Health Hazard:     | 1 |  |
|  | Fire Hazard:       | 1 |  |
|  | Reactivity Hazard: | 0 |  |