

## SAFETY DATA SHEET

SDS NA-SC105

### Section 1 – Product and Supplier Identification

**Product identifier used on the label:** Carbon Mixes with Coal Tar Pitch

**Other means of identification:** Not applicable

**Uses (and restrictions):** Customer applications for specialty carbon products that contain coal tar pitch, in powder, granular or pellet form

**Supplier and contact information:**

Morgan Advanced Materials +1(864)458-7777  
251 Forrester Drive [www.morganspecialitygraphite.com](http://www.morganspecialitygraphite.com)  
Greenville, SC 29607 USA

**Emergency phone number:** +1(864)458-7777  
08:00-17:00 local time M-F

### Section 2 – Hazard Identification

**Classification:**

Classified as hazardous for carcinogenicity (Category 1B) under the Globally Harmonized System of Classification and Labelling and the US OSHA Hazard Communication Standard.

**Signal word, symbols, hazard and precautionary statements:**

Danger



Hazard Statements: May cause cancer.

Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

If exposed or concerned: Get medical advice/attention.

Dispose of contents/container in accordance with local and national regulations.

**Other information about health hazards:**

Dust from this material can irritate the skin and eyes. Coal tar pitch can have phototoxic effects on the skin: pitch residues on the skin can intensify the effect of sunlight on the skin, causing unexpectedly higher levels of sunburn. Avoid skin exposures. Wash well before spending time exposed to sunlight.

Inhalation of dust may irritate the nose, throat and lungs. Repeated or prolonged exposure to elevated concentrations of airborne dust can irritate and harm the respiratory system, especially as an aggravation to a pre-existing condition. Avoid creating and breathing airborne dust.

Coal tar pitch is a carcinogen and can presumably cause an increased risk of cancer where exposed (lung cancer through inhalation, skin cancer through skin exposure, possibly kidney or bladder cancer through excretion if absorbed into the body).

**Other information about physical hazards:**

Carbon/graphite dust is electrically conductive and dust accumulations on electrical equipment can cause short circuits resulting in electrical shock, fire or damage to equipment. Dust from this product contains graphite and may create slippery conditions. Accumulations of dust may present a combustible dust hazard. Maintain good housekeeping.

**Section 3 – Composition**

Component	CAS Registry Number	Concentration % by weight
Graphite	7782-42-5	0-90%
Carbon	7440-44-0	0-90%
Coal Tar Pitch	65996-93-2	10-40%

#### Section 4 – First Aid Measures

<b>Inhalation:</b>	Remove affected personnel to an exposure-free environment.
<b>Skin and eye contact:</b>	Flush eyes with water. Wash skin with soap and water.
<b>Ingestion:</b>	Not applicable, not expected
<b>Indication of need for immediate medical attention and special treatment:</b>	Not applicable, not expected

#### Section 5 – Fire Fighting Measures

Powders containing carbon, graphite and coal tar pitch are combustible.

**Suitable extinguishing media:**

Use an extinguisher that is suitable for the surrounding fire.

**Combustion hazards:**

When burned, carbon-type materials release carbon dioxide (and possibly carbon monoxide if there is not enough oxygen for complete combustion). Heated coal tar pitch releases coal tar pitch fumes.

**Special fire-fighting procedures:**

Use protective clothing and breathing equipment appropriate to the surrounding fire.

**Unusual fire and explosion hazards:**

As is the case with any combustible dust, concentrations of airborne carbon-type dust can present a dust explosion hazard. Use dust collection and practice good housekeeping to prevent dust accumulations and prevent situations where substantial amounts of dust can become airborne.

**Flash point:** Not applicable

**Flammable limits:** Not applicable

#### Section 6 – Accidental Release Measures

Sweep or vacuum spilled material and place into sealable containers. Avoid creating and breathing airborne dust. Avoid skin exposures and wash exposed skin after handling. Dispose in accordance with applicable waste disposal regulations.

## Section 7 – Handling and Storage

Practice good housekeeping to avoid the accumulation of dust in the workplace. Avoid creating and breathing airborne dust. Avoid skin exposures and wash exposed skin after handling. Practice good hygiene: wash hands before eating, drinking or smoking and do not store food, or eat or drink, in areas where chemicals are handled.

## Section 8 – Exposure Controls and Personal Protection

### Exposure limits and guidelines:

Material	OSHA PEL 8-Hr TWA	ACGIH TLV 8-Hr TWA
Graphite	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	2.0 mg/m <sup>3</sup> (respirable)
Carbon	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (total) 3 mg/m <sup>3</sup> (respirable)
Coal Tar Pitch	0.2 mg/m <sup>3</sup> (benzene-soluble fraction)	0.2 mg/m <sup>3</sup> (benzene-soluble fraction)

Other jurisdictions may have different exposure limits and control guidelines. Users are advised to consult and comply with local regulations.

### Engineering controls:

Use good housekeeping practices. Use general or local exhaust ventilation, if necessary, to reduce concentrations of airborne contaminants.

### Personal protective equipment:

Use NIOSH-approved respiratory protective equipment if exposures exceed established limits (an N-95 dust mask for dust, a cartridge-type respiratory with organic vapor cartridges and particulate prefilters for coal tar pitch fumes from heated materials). Wear gloves and work clothing to minimize skin exposures. Chemical protection creams can be used on exposed skin for further protection.

### General hygiene considerations:

Wash hands before eating, drinking or smoking and do not store food, or eat or drink, in areas where chemicals are handled.

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Black powder/pellets	<b>Odor:</b>	Mild tar-like odor
<b>Odor threshold:</b>	Not applicable	<b>pH:</b>	Not applicable
<b>Melting point:</b>	Not applicable	<b>Boiling point:</b>	Not applicable
<b>Flash point:</b>	Not applicable	<b>Evaporation rate:</b>	Not applicable
<b>Flammability:</b>	Not applicable	<b>LEL/UEL:</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable	<b>Vapor density:</b>	Not applicable
<b>Relative density:</b>	Not applicable	<b>Water solubility:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not applicable	<b>Autoignition temperature:</b>	Very high
<b>Decomposition temperature:</b>	Very high	<b>Viscosity:</b>	Not applicable

## Section 10 – Stability and Reactivity

This material is stable and non-reactive.

## Section 11 – Toxicological Information

Coal tar pitch has been identified as a carcinogen: the International Agency for Research on Cancer (IARC) lists coal tar pitch as a Group 1 carcinogen, the US Department of Health and Human Services National Toxicology Program (NTP) lists coal tar pitch as a known human carcinogen.

Additional toxicological information is available through the U.S. National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS). See website: <http://www.cdc.gov/niosh/ipcsneng/nengrtec.html>.

Graphite RTECS # MD9659600

Carbon RTECS # FF5250100

Coal Tar Pitch RTECS # GF8655000

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## Section 12 – Ecological Information

Carbon/graphite is relatively inert and would be expected to be of negligible consequence in the environment. Constituents in coal tar pitch are considered to be environmental pollutants.

## Section 13 – Disposal Considerations

This product does not contain substances that could cause it to be hazardous waste, if disposed, under federal regulations in the United States. Other jurisdictions might have different regulations. Dispose in accordance with applicable waste disposal regulations.

## Section 14 – Transport Information

This product contains coal tar pitch, which contains small percentages of chemicals that are listed as CERCLA Hazardous Substances, each of which has an associated Reportable Quantity (RQ). Under US Department of Transportation regulations, a single container that contains more than a Reportable Quantity of a CERCLA Hazardous Substance is regulated as a DOT Hazardous Material when shipped. Therefore the regulatory status of this material for shipping purposes depends on the container size, the amount of material in the container and the percentage of coal tar pitch in the mixture. A 55-gallon drum quantity of this product would not be a DOT Hazardous Material; large container sizes might be regulated. The supplier will determine the regulatory status of containers of the product as supplied. Other subsequent shippers should follow that determination.

## Section 15 – Regulatory Information

All materials in these product grades are listed on the US EPA Toxic Substances Control Act (TSCA) inventory.

Coal tar pitch, an ingredient in this product, contains small percentages of several CERCLA Hazardous Substances, including benzo(a)pyrene and dibenz(a,h)anthracene. A single 55-gallon drum of this product does not contain a Reportable Quantity of a CERCLA Hazardous Substance.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) includes a reportable category of chemicals called Polycyclic Aromatic Compounds (PAC). Coal tar pitch contains about 10% PAC.

California Proposition 65: This product contains chemicals (constituents of coal tar pitch) that are known to the State of California to cause cancer.



Ingredients in this product cause it to be classified as Class D, Division 2, Subdivision A under Canada Controlled Products Regulations (WHMIS).

## Section 16 – Other Information

	HMIS Ratings
Health	2*
Flammability	1
Physical Hazard	0

\* indicates possible chronic health effects from continuing exposures

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