SECTION 2: Hazards Idenitification

2.1. Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): Combustible dust

For full text of the H-Statement(s) mentioned in this Section, See Section 16

2.2. GHS Label elements, including precautionary statements

Pictograms:

Signal Word: **Warning**

Hazard Statements:
H320- Causes eye irritation;
H335-May cause respiratory irritation

Precautionary Statements:
P261- Avoid breathing dust
P264- Wash thoroughly after handling
P271- Use in well-ventilated area
P280- Wear protective gloves/clothing/eye & face protect
P304&340- IF INHALED: Remove person to fresh air
P305&351&P338- If in eyes, Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P312- Call Poison Control Center/Doctor if you feel sick
P403& P233- Store in well-ventilated place. Keep container tightly closed
P404- Store in a closed container
P501- Dispose of contents/container in accordance with local regulations

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS or HMIS: Combustible dust. May form combustible dust concentrations in air

SECTION 3: Composition/information on ingredients

3.1. Substances

Synonyms: Carbon Aerogel, amorphous carbon, carbon, glassy carbon
Formula: C
Molecular Weight: 12.01 g/mol
CAS-No.: 7440-44-0
Percentage: >95%

No ingredients in the final product are expected to be hazardous according to OSHA criteria and no components need to be disclosed according to applicable regulations.

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact:	Wash off with soap and plenty of water.
In case of eye contact:	Flush eyes with water as a precaution
If swallowed:	**DO Not Induce Vomiting!** Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation:	Inhalation of airborne fragments or dust may cause mechanical irritation of the upper respiratory tract
Symptoms/injuries after skin contact:	Skin contact with fragments or dust fron this product can produce a drying sensation and mechanical irritation of the skin and mucous membranes
Symptoms/injuries after eye contact:	Exposure to fragments or dust from this product can produce drying sensation and mechanical irritation of the eyes
Symptoms/injuries after igestion:	This material is not intended to be ingested. If ingested in large quantity, the material may locally dehydrate contacted tissue, produce mechanical irritation, and/or result in blockage
Acute Health Hazards:	Fragments and dust from this product are a physical irritant and may cause temporary irritation of scratchiness of the throat and/or itching and redness of the eyes and skin
Chronic Health Hazards:	Product is not known to pose any chronic health hazards

4.3. Indication of any immediate medical attention and special treatment needed

Mechanical processing of product may result in lightweight fragments or dust. Inhalation of excessive amounts of dust from the product may cause mechanical irritation of the respiratory tract. Dermal contact may cause mechanical irritation of the skin.

Excessive inhalation of fragments or dust may aggravate pre-existing chronica lung conditions including, But not limited to, bronchitis, emphysema, and asthma. Dermal contact may aggravate exisiting dermatitis.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture
Fire Hazard: Nature of decomposition products: carbon monoxide and carbon dioxide with the potential for emission of toxic fumes under fire conditions

5.3. Advice for firefighters
Protection during firefighting: Wear self-contained,approved breathing apparatus and full protective clothing, including eye protection and boots to prevent contact with skin and eyes

5.4. Additional Information : Not applicable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation

6.2. Environmental precautions
Do not let product enter drains

6.3. Methods and material for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of all waste and cleanup materials in accordance with regulations.

6.4. Additional information: Not applicable

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged repeated exposure.

7.2. Conditions for safe storage, including any incompatibilites
Store in a cool, dry container and in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s): Not applicable

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The final material is not expected to contain any substances with occupational exposure limit values. No data is available at time of publication on residual precursors in material.

8.2. Exposure controls

Appropriate engineering controls:	General (mechanical) room ventilation is expected to be satisfactory of normal handling; Showers/Eyewash stations/Ventilation system
Personal protection equipment	
Eye/face protection:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection:	Handle with Nitrile 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
Respiratory protection:	Provide local exhaust, preferably mechanical. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. If exposure levels are excessive, use and approved respirator. Wear NIOSH approved respiratory protective equipment when applicable limits may be exceeded.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance	Form: solid Color: black
b) Odor	Odorless
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing	Melting point/range 3600-3700 ^{o}C (6512 – 6692 ^{o}F)
f) Initial boiling point/boling range	4827 ^{o}C (8721 ^{o}F)
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	May form combustible dust concentrations in air
j) Upper/lower flammability of explosive limits	No data available
k) Vapor pressure (mm Hg)	No data available
l) Vapor density (Air=1)	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol-water	No data available
p) Auto-ignition temperature	No data available
q) Decompositon temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2. Other Information: Not applicable

SECTION 10: Stability and reactivity

10.1.	**Reactivity:**	No data available
10.2.	**Chemical stability:**	The product is stable under normal handling and storage conditions
10.3.	**Possibility of hazardous reactions:**	No data available
10.4.	**Conditions to avoid**:	No data available
10.5.	**Incompatible materials:**	Strong oxidizing agents or substances that combine explosively with organic compounds
10.6.	**Hazardous decomposition products:**	Carbon monoxide and carbon dioxide. In the event of fire: See section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	No data available
Inhalation:	No data available
Dermal:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skim sensitization:	No data available
Germ cell mutagenicity:	No data available

Carcinogenicity

ARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity;	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated esposure):	No data available

Aspiration hazard: No data available

Additional Information
RTECS: No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1. Ecotoxicity No additional information available

12.2. Persistence and degradability No additional information available

12.3. Bioaccumulative potential No additional information available

12.4. Mobility in soil No additional information available

12.5. Other adverse effects No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommedations: Contact a licensed professional waste disposal service to dispose of this material. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Contaminated packaging: Dispose of as unused product

SECTION 14: Transportation information

14.1 The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

OSHA HAZARDS:
No known hazards

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to Massachusetts Right To Know Act

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Carbon, mesoporous	7440-44-0	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Carbon, mesoporous	7440-44-0	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

SECTION 16: OTHER INFORMATION

Full text of H-Statement(s) referred to under sections 2 anad 3.

H320- Causes eye irritation
H335- May cause respiratory irritation

POTENTIAL HEALTH EFFECTS:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.

HMIS Rating:
Health Hazard: 1
Flammability: 1
Physical Hazards: 0

NFPA Rating:
Health Hazard: 1
Fire: 1
Reactivity Hazard: 0

Preparation information: Prepared 10/2001 – initial version 1.0
Prepared 12/2008 – revision 2.0
Prepared 6/13/2017 – revision 3.0
Prepared 3/21/2019 – revision 4.0

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