SAFETY DATA SHEET
CARBON AEROGEL

1. IDENTIFICATION

PRODUCT NAME: Carbon Aerogel

MANUFACTURER/SUPPLIER INFORMATION:

Name: Aerogel Technologies, LLC
Address: Boston, MA 02136
Telephone: (888) X-AEROGE
(888) 923-7643
Fax: (801) 650-1463
Email: safety@aerogeltechnologies.com
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IDENTIFIED USE: Insulation, engineering material, electrode
RECOMMENDED RESTRICTIONS: None known

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW

OSHA Hazards: No known or identified OSHA hazards

GHS Hazards: No known or identified GHS dangerous substances

Hazard pictograms: Not applicable

HMIS CLASSIFICATION (scale 0-4):

Health Hazard: 0
Flammability: 0
Physical Hazards: 0
The production of this material uses precursors with the following GHS dangerous substance codes. All precursors are expected to be removed during processing, but this has not been confirmed at the time of publishing:

PRECAUTIONARY HAZARDS:

P261  Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

POTENTIAL HEALTH EFFECTS:

Inhalation  Dust may be harmful if inhaled. May cause respiratory tract irritation.

Ingestion  Dust may be harmful if swallowed.

3. COMPOSITION/INFORMATION OF INGREDIENTS

CHEMICAL NAME:  N/A

SYNONYM(S):  Carbon Aerogel, amorphous carbon, carbon, glassy carbon

FORMULA:  C

MOLECULAR WEIGHT:  12.01 g/mol

CAS-No.:  7440-44-0

4. FIRST AID MEASURES

IF INHALED:  If breathed in, move person into fresh air. If not breathing, give artificial respiration. Seek medical advice.

IN CASE OF SKIN CONTACT:  Wash off with soap and plenty of water. Seek medical advice.

IN CASE OF EYE CONTACT:  Flush eyes with water as a precaution. Seek medical advice.

IF SWALLOWED:  Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No further relevant information available.
5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS:
No data available. Treat material as having potential for emission of toxic gases upon combustion.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:
Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Avoid formation of dust.

ENVIRONMENTAL PRECAUTIONS:
Dispose of as with plastic waste. Material is non-recyclable. Non data on long-term environmental impact/dangers. Do not let material enter drains.

METHODS/MATERIALS FOR CONTAINMENT AND CLEAN-UP:
Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS:
Provide appropriate exhaust ventilation at places where dust is formed. Normal measure for preventive fire protection.

CONDITIONS FOR SAFE STORAGE:
Keep material in a tightly closed container, in a dry and well-ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
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.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Respiratory protection:**
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:**
Handle with 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.

**Eye protection:**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection:**
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene protection:**
General industrial hygiene practice.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPERANCE:**
- Form: solid
- Color: white, pink, or purple

**GENERAL INFORMATION:**
- Melting point/freezing point: >3500 °C - lit
- Initial boiling point/boiling range: No data available
- Flash point: No data available

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:
Stable under recommended storage conditions

POSSIBILITY OF HAZARDOUS REACTIONS:
No data available

CONDITIONS TO AVOID:
No data available

MATERIALS TO AVOID:
Strong oxidizing agents or substances that combine explosively with organic compounds.

HAZARDOUS DECOMPOSITION PRODUCTS:
No data available.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:
Oral LD50: No data available
Inhalation LC50: No data available
SAFETY DATA SHEET
Per OSHA HazCom 2012
Carbon Aerogel
16 May, 2018
Rev 2.0

Dermal LD50: No data available
Other information on acute toxicity: No data available

SKIN CORROSION/IRRITATION: No data available
SERIOUS EYE DAMAGE/EYE IRRITATION: No data available
RESPIRATORY OR SKIN SENSITIZATION: No data available
GERM CELL MUTAGENICITY: No data available

CARCINOGENICITY:
IARC: No data available
ACGIH: No data available
NTP: No data available
OSHA: No data available

REPRODUCTIVE TOXICITY: No data available
TERATOGENICITY: No data available

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (GLOBALLY HARMONIZED SYSTEM):
No data available

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE (GLOBALLY HARMONIZED SYSTEM):
No data available

ASPIRATION HAZARD:
No data available

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.

Synergistic effects: No data available

ADDITIONAL INFORMATION:
12. ECOLOGICAL INFORMATION

TOXICITY:
No data available

PERSISTENCE AND DEGRADABILITY:
No data available

BIO-ACCUMULATIVE POTENTIAL:
No data available

MOBILITY IN SOIL:
No data available

PBT AND VPVB ASSESSMENT:
No data available

OTHER ADVERSE EFFECTS:
No data available

13. DISPOSAL CONSIDERATIONS

PRODUCT:
Offer surplus and non-recyclable materials to a licensed disposal company.

CONTAMINATED PACKAGING:
Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number: Not applicable
(DOT, AND, IMDG, IATA) UN proper shipping name: Not applicable
(DOT, AND, IMDG, IATA) Transport hazard class(es): Not applicable
(DOT, AND, IMDG, IATA) Packing Group: Not applicable
15. REGULATORY INFORMATION

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, PENNSYLVANIA, NEW JERSEY RIGHT TO KNOW COMPONENTS:
Component: Carbon
CAS: 7440-44-0

CALIFORNIA PROP. 65 COMPONENTS:
To best of our knowledge, this product does not contain chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

16. OTHER INFORMATION

Date of preparation / last revision: 06/02/2017

FURTHER INFORMATION:
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