Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier
Product Names: Carbon Fiber: milled carbon fiber

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s): Reinforcement fiber for manufactured polymer goods.

1.3 Details of the supplier of the safety data sheet
Manufacturer: Finite Fiber, 1374 Markle St., Akron, OH 44306, United States

1.4 Emergency telephone number
Manufacturer: 330-773-6654

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture
This product is not classified as hazardous or flammable.
Preparation classification: None known

2.2 Label Elements
No special labeling

2.3 Other Hazards
Physio-chemical hazards: In the supplied form the product is not explosive, the build-up of fines and dust can lead to a risk of dust explosions.
Eyes: Dust may cause temporary irritation
Skin: Dust may cause mild irritation or allergic skin reactions
Inhalation: Dust may cause mild irritation
Other hazards: This product and the dust from the product are electrically conductive

Section 3 - Composition/Information on Ingredients

3.1 Chemical nature: Carbon, fibers
3.2 Other substances with occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Weight %</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>308063-67-4 (7440-44-0)</td>
<td>90%-99%</td>
<td>Carbon Fiber (carbon) polyacrylonitrile(PAN)-based</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

4.1 Description of first aid measures
Inhalation: Move to fresh air. Get medical attention immediately if symptoms occur.
Skin: If skin irritation occurs, wash thoroughly with soap and water.
Eye: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
4.2 Notes to physician
Treat symptomatically.

4.3 Protection of first-aiders
Use personal protective equipment. Do not breathe dust.

4.4 Ingestion
Not a probable route. However, in case of gastro-intestinal distress following accidental ingestion, call a physician.

Section 5 - Firefighting Measures

5.1 Flammable properties
Not flammable.

5.2 Flash point
Not applicable.

5.3 Extinguishing media
Suitable Extinguishing Media: Water spray, Foam, CO2, Chemical Powder

5.4 Hazardous combustion products
Carbon oxides, Nitrogen oxides (NO x), Volatile organic compounds, Hydrogen cyanide.

5.5 Explosion data
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: airborne fibers are electrically conductive

5.6 Advice for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal Precautions: Do not breathe dust.
Emergency Procedures: No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

6.2 Environmental precautions
Should not be released into the environment.

6.3 Methods and material for containment and cleaning up
Prevent further leakage or spillage if safe to do so.
Avoid dust formation. Sweep up and shovel into suitable containers for disposal.
Section 7 - Handling and Storage

7.1 Precautions for safe handling
Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid dust formation.

7.2 Conditions for safe storage, including any incompatibilities
Airborne particles and filaments should be stored to minimize skin contact and electrical shorts. Do not store with oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

8.1 Exposure guidelines
Exposure Limits: OSHA and ACGIH (USA) have not established air contamination for carbon fibers. This could be a nuisance dust. OSHA has set a standard for nuisance dust to 5 mg/m^3 (respirable fraction) and 15 mg/m^3 (total dust). ACGIH has established an exposure value of 3 mg/m^3 (respirable fraction) and 10 mg/m^3 (total).

8.2 Exposure controls
Engineering Measures/Controls: Exhaust for airborne fiber removal
Personal Protective Equipment:
Respiratory: In case of insufficient ventilation wear suitable respiratory equipment (filter type P2). This is required in cases where maximum concentration of 1 RFP/ml of air is exceeded.
Eye/Face: Safety glasses
Hand: Protective gloves
Skin/Body: Disposable protective garments to eliminate potential skin irritation.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
Thermal Hazards: None

Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state @20°C</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Black Fiber</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>~3500 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>~1.8</td>
</tr>
<tr>
<td>Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Negligible</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt;650 °C</td>
</tr>
</tbody>
</table>

Preparation Date: 15/August/2018
Revised Date: 04/December/2018
Section 10 - Stability and Reactivity

10.1 Chemical stability
Stable under normal conditions.

10.2 Possibility of hazardous reactions
Can react with strong oxidizing agents.

10.3 Conditions to avoid
See section 7.

10.4 Hazardous decomposition products
Products of combustion and decomposition will depend on other materials present in the fire and the fire conditions.
Burning will produce CO₂, CO, and minute amounts of N₂, HCN and H₂O.

Section 11 - Toxicological Information

11.1 Information on toxicological effects
Acute toxicity: No data available
Skin Corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: Not an inhalation hazard, filament diameter > 3um / non-respirable (IARC)

Section 12 - Ecological Information

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in Soil
No data available

12.5 Results of PBT and NPvB assessment
No data available

12.6 Other adverse effects
Ecological data not available
Section 13 - Disposal Considerations

13.1 Waste disposal methods
Waste materials must be disposed of in accordance with the Directive on waste 2008/98/EC and any other applicable national or local regulations.

Section 14 - Transport Information

14.1 UN Shipping Name
Not dangerous goods ADR/RID land, AND (inland navigation), IMGD (marine)

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture
TSCA Status: Exempt – satisfies ‘article’ definition under 40 CFR 704.3

15.2 Chemical safety assessment
Has not been carried out

Section 16 - Other Information

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