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INTRAMICRON

# MATERIAL SAFETY DATA SHEET - MSDS

## 1 - I - PRODUCT IDENTIFICATION

Chemical Name: **Polymer Carbon Media**

Chemical Family: **Plastic, Carbon** Formula: **N/A**

This product is considered non-hazardous by the criteria specified in 29 CFR 1910.1200 (Hazard Communication).

**Date Prepared: Apr 6<sup>th</sup>, 2010**

**24 Hour Emergency Contact:**

**(334) 740-8310**

## 2&3 - II - HAZARDOUS INGREDIENTS

Alloys & Metallic Coatings

Component % by Weight ACGIH TLV (mg/m<sup>3</sup>)

Activate Carbon 60-80% 10

(CAS # 7440-44-0)

PET (Polyester) 10-30% Not Applicable

CAS# 25038-59-9, 26006-30-4, 24938-04-3

LLDPE 10-20% Not Applicable

(Polyethylene)

## 9 - III - PHYSICAL PROPERTIES

State of Mater: Solid

Appearance: Grey Fiber Mat  
Carbon may come out edges

Odor: None to Slight

Melting Point: >110°C

Specific Gravity: Not Applicable

Vapor Density: Not Applicable

Solubility In Water: Slight, Acts like Sponge

**HMIS Ratings:** Health: 1 Fire: 1 Reactivity: 1 Pers. Prot.: safety glasses with side shields, impervious gloves for prolonged contact

## 11 - VI - HEALTH & HAZARD INFORMATION

### **Emergency Overview:**

May be irritating to eyes, skin and respiratory tract. High airborne dust concentrations may pose an explosion hazard.

**Potential Health Effects: Eyes:** Contact may produce mechanical eye irritation.

**Potential Health Effects: Skin:** Skin irritation would not be expected from single short-term exposure to this product.

Prolonged or repeated contact may produce some irritation.

### **Potential Health Effects: Ingestion:**

Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting and constipation. Small amounts of this product in solution, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.

### **Potential Health Effects: Inhalation:**

Overexposure to dusts may produce irritation of the respiratory system. Wet activated carbon may cause asphyxiation by adsorbing oxygen from confined spaces.

## 4 - FIRST AID MEASURES

### **First Aid: Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

### **First Aid: Skin:**

For skin contact, wash with soap and large amounts of water. If irritation persists, seek medical attention.

**First Aid: Ingestion:** Use of this product for medicinal purposes should be conducted only by qualified medical personnel. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting unless instructed to do so by medical personnel.

## 15 - TRANSPORTATION INFORMATION

Transported by Ground (DOT): Non hazardous - Not Regulated

Transported by Vessel (IMDG): Non hazardous - Not Regulated

Transported by Air (IATA): Non hazardous - Not Regulated

## **5 - IV - FIRE AND EXPLOSION HAZARD INFORMATION**

### **General Fire Hazards (All components of mat are flammable if sufficient heat and ignition is present):**

Standard references cite the fact that activated carbon exposed to air is a potential fire hazard because of its very high surface area and absorptive capacity. However, manufacturers state there is low probability of ignition with steam-activated carbon. Accumulation of airborne dusts may present an explosion or fire hazard in the presence of an ignition source.

Polyesters can burn if exposed to flame. Decomposition products generated from molten polymer may be subject to autoignition. Combustion products will be comprised of compounds of carbon, hydrogen, and oxygen. The exact composition will depend on the conditions of combustion.

Under extreme conditions, copolyolefin sheath bicomponent fibers and fibrous materials can cause heat build up possibly resulting in ignition. Autoignition can result if the following conditions occur in combination:

Temperature above 190°C (374°F), an insulated situation which prevents heat escape, and extended time.

Temperatures above 300°C (572°F) will release combustible gases.

### **Hazardous Combustion Products:**

Upon combustion, this product may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials adsorbed onto the carbon may also be released during combustion.

**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog.

### **Fire Fighting Equipment/Instructions:**

Firefighters should wear full protective clothing including self contained breathing apparatus.

## **10 - V - REACTIVITY DATA**

Stability:	Stable at room temp
Conditions To Avoid:	Avoid accumulation of airborne dusts. Dusts may be explosive when exposed to heat, flame, ignition sources, combustible material and incompatible materials.
Incompatible Materials:	Contact with incompatible materials may produce ignition or explosions. Incompatible with oxides, peroxides, oxosalts, potassium, nitric acid, sodium sulfide, halogens, oxygen, ozone, bromates, chlorates, iodates, and nitrates.
Hazardous Decomposition Products:	Upon decomposition, this product may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials adsorbed onto the carbon may also be released during decomposition.
Polymerization:	Will not occur

## **8 - VII & VIII - CONTROL MEASURES - SPECIAL PROTECTIONS**

Exposures should be minimized in accordance with good industrial hygiene practices. The manufacturer recommends that exposure limits for nuisance dusts be followed. The OSHA PEL for the respirable fraction is 5 mg/m<sup>3</sup> (TWA) and for total dust the OSHA PEL is 15 mg/m<sup>3</sup> (TWA). The ACGIH threshold limit value for Particulates Not Otherwise Classified (PNOC) is 10 mg/m<sup>3</sup> (TWA).

### **Engineering Controls:**

Ventilation should be sufficient to effectively remove and prevent buildup of airborne dusts.

### **PERSONAL PROTECTIVE EQUIPMENT:**

Personal Protective Equipment: Eyes/Face Wear safety glasses with side shields when a potential for dust is present.

Personal Protective Equipment: Use good industrial hygiene practices in handling this material.

## **12&13 - SPILL OR LEAK PROCEDURES**

Steps To Be Taken In Case Material Is Released Or Spilled:	Sweep up spills and place in a waste disposal container. Flush area with water.
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## **16 - VII - SPECIAL PRECAUTIONS**

Handling and Storage / Other: None

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