

SAFETY DATA SHEET

AvCarb Fibers

Section 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: All forms-Chopped, Yarn, Fabric, Tow
Chemical Formula: Mixture
Synonyms: N/A
Part No.: AVCARB FIBERS: 1071, 1071HBC, 1185HCB, 1186HCB, T1203CB, 1209, 1209H, 1209HC, 1209HCB, 1243HCB, 7497HCB, 7497HK, 7575, 7575HK, 8224HK, 80132, 80182, 80183, 80268

Manufacturer: AvCarb Material Solutions
Address: 2 Industrial Ave, Lowell, MA, 01851
Emergency Phone #: Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night -- Within USA and Canada:
1-800-424-9300 CCN709142 or
+1 703-527-3887 (collect calls accepted)

Person Responsible for Preparation: AMS EH&S
Preparation/Revision Date: 7/29/14

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS Number	% WT	OSHA PEL TWA	ACGIH TLV TWA	NIOSH REL TWA	SARA 313
Carbon Fiber	7440-44-0	80-100	15/5 mg/m ³	10/3 mg/m ³	3.0 mg/m ³	No

Section 3: HAZARDS IDENTIFICATION

Emergency Overview – Potential Health Effects

Emergency Overview: Black fiber. Odorless. Handling or processing of this material may generate airborne particles that can cause mechanical irritation of the eyes, skin, nose, and throat. This material will conduct electricity.

Human Health Hazards: This product does not present a hazard to human health.

Acute Effects:

- Inhalation:** No specific health warnings noted. Breathing fibers or dust may cause a mechanical irritation to the respiratory tract, similar to any other nuisance particulate dust.
- Ingestion:** No specific health warnings noted.
- Skin:** No specific health warnings noted. Contact may cause mechanical irritation, similar to fibreglass irritation.
- Eyes:** May cause discomfort, similar to any dust particle in the eye.
- Carcinogenicity:** Not listed as a mutagen, teratogen, reproductive toxin, or carcinogen by the International Agency for Research on Cancer (IARC), National Toxicology Program (NTP), and OSHA.

Chronic Effects: Prolonged inhalation of excessive dust may result in adverse impact including but not limited to dermatitis and allergic reaction in some sensitive people.

Section 4: FIRST AID MEASURES

SIGNS AND SYMPTOMS OF EXPOSURE

For dust and or oxidized fiber: Rash, coughing, itching, dizziness, and headache

FIRST AID MEASURES

- Inhalation:** Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult
- Eye Contact:** Immediately rinse eyes with running water. Remove any contact lenses and continue flushing with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical advice if irritation develops.
- Skin Contact:** Flush effected area gently with cold running water for at least 15 minutes. If rash occurs, follow 15 minute rinse with a mild soap and water wash to mechanically remove fibers. Dispose contaminated clothing.
- Ingestion:** Give 3-4 glasses or water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person

Section 5: FIRE FIGHTING MEASURES

FLASH POINT:	Not Applicable
FLASH POINT METHOD:	None
AUTO IGNITION TEMP.	1290 F
LEL:	Not Applicable
UEL:	Not Applicable
FLAMMABILITY CLASSIFICATION:	Not Classified
SPECIAL FIRE FIGHTING PROCEDURES:	No exceptional instructions indicated. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode. Wear appropriate turnout gear and chemical resistant PPE
EXTINGUISHER MEDIA:	Foam, Carbon Dioxide, Dry Chemical, Water, or Halon. When choosing extinguishing media, consider surrounding fire.
UNUSUAL FIRE AND EXPLOSION HAZARD:	Incineration of this material will produce low levels of CO, CO ₂ , HCN, acrylonitrile and vapors.

Section 6: ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS:** Wear appropriate equipment (see section 8). Extinguish all ignition sources.
- SPILL CLEAN-UP PROCEDURES:** Collect spilled material using mechanical equipment. Use HEPA filter equipped vacuum for chopped forms or dust.

Section 7: HANDLING AND STORAGE

- HANDLING PRECAUTIONS:** Wear appropriate protective equipment (See Section 8). Avoid handling that generates dust and spreading of dust to neighboring rooms. Containers should be kept tightly closed. Fiber is electrically conductive. All electrical equipment should be properly protected against airborne fiber
- STORAGE PRECAUTIONS:** No special storage precautions noted. .
- REGULATORY REQUIREMENTS:** Follow OSHA warehousing and processing standards

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



Protective Clothing/Equipment:

Workers with sensitive skin or contact dermatitis may require gloves and/or long sleeves. It is recommended that any skin area that may come in regular contact with this material be protected with gloves, sleeves, or other appropriate barrier at all times.

Wear protective eyeglasses or chemical resistant goggles, per OSHA eye- and face protection regulation (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

It should be noted that fibers or dust from the material might irritate the skin due to mechanical actions of fibers/dust. Individuals sensitive to fibers should wear an apron, long sleeves, and gloves.

Safety Stations:

Ensure emergency eyewash stations, safety showers or drench hoses, and washing facilities available in or adjacent to, work areas.

ENGINEERING CONTROLS:

Ventilation:

Monitor dust/fume levels to prevent exceeding TLV. Because fibers can infiltrate and short circuit electrical equipment, electrical machines and devices (i.e., measuring, monitoring, etc) should be sealed and/or air purged by external fresh air source. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it limits or prevents contaminant from entering the work area by controlling it at its source.

ADMINISTRATIVE CONTROLS: Review operating procedures.

Respiratory Protection: Engineering or administrative control should be implemented to reduce exposure. If workplace limit(s) of product or any component is exceeded, a NIOSH or MSHA approved respirator is advised. Seek professional advice prior to respirator selection (consult an industrial hygienist) and follow OSHA respirator regulation (29 CFR 1910.134). Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear a SCBA. If respirators are used, OSHA requires a written respiratory protection program that includes at a minimum; medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Comments: Do not eat, drink, or smoke in work areas. Practice good personal hygiene after coming into contact with or using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid	COLOR:	Black
ODOUR/TASTE:	Odorless	BOILING POINT:	N/A
SOLUBILITY:	Insoluble in water.	FLASH POINT:	N/A
SPECIFIC GRAVITY:	1.7-1.8g/cm ³	VAPOR PRESSURE:	N/A
MELTING POINT:	N/A	VAPOR DENSITY:	N/A

Section 10: STABILITY AND REACTIVITY

STABILITY: Product is stable at room temperature under normal storage and handling conditions.

CONDITIONS TO AVOID: Oxidation reaction may occur when exposed to air at temperature above 500F generating low levels of HCN, CO, CO₂, H₂O, and acrylonitrile.

INCOMPATIBLE MATERIAL: Strong Oxidizers such as ozone, chlorine, permanganate may result in rapid combustion. Avoid contact with strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Products of combustion and decomposition depend on other materials present in the fire and the fire conditions. Burning will produce low levels of HCN, CO, CO₂, H₂O and acrylonitrile. Avoid inhalation

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:	None Known
CHRONIC EFFECTS:	None Known
CARCINOGENICITY:	No
SKIN EFFECTS:	None Known
MUTAGENICITY:	None Known
TERATOGENICITY:	None Known

Section 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Not Determined
ENVIRONMENTAL FATE:	Not Determined
ENVIRONMENTAL DEGRADATION:	Not Determined
SOIL ABSORPTION/MOBILITY:	Not Determined

Section 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Follow applicable federal, state, and local regulations. Contact your supplier or a licensed contractor for detailed recommendations.

DISPOSAL REGULATORY REQUIREMENTS: TCLP may be required by disposal facility.

Section 14: TRANSPORTATION INFORMATION

DOT TRANSPORTATION DATA (49 CFR 172.101)

PROPER SHIPPING NAME:	Not Applicable/not regulated
PACKAGING AUTHORIZATION:	Not Applicable
QUANTITY LIMITATION:	
Passenger, Aircraft, Rail	Not Applicable
SHIPPING SYMBOLS:	Not Applicable
Exceptions:	Not Applicable
HAZARD CLASS:	
ID #:	Not Applicable
Non-bulk Packaging:	Not Applicable
Packing Group:	Not Applicable
Label:	Not Applicable

Section 15: REGULATORY INFORMATION

RISK PHRASES:	Not classified for transportation
SAFETY PHRASES:	Not classified for transportation
EC DIRECTIVES:	System of specific information related to Dangerous Preparations 91/155.
STATUTORY INSTRUMENTS:	

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE:
Classification and labelling of Substances and Reparations Dangerous for Supply.

EPA REGULATIONS:

RCRA Hazardous Waste # (40 CFR 261.33): Not Listed
RCRA Hazardous Waste Classification (40 CFR 261): Not Classified
CERCLA Hazardous Substance (40 CFR 302.4): Unlisted per RCRA Sec. 3001
TSCA: Yes
Canada DSL: Yes
Canada NDSL: No
CERCLA Reportable Quantity (RO): NA
SARA 311/312 Toxic Chemical (40 CFR 372.65): Not Listed
SARA 313- ingredients marked as "Yes" in section II of SDS are subject to the reporting requirements of section 313 of title III of SARA and 40 CFR Part

Section 16: OTHER INFORMATION

LABEL PRECAUTIONS: Avoid contact with eyes, skin, and clothing.
Avoid breathing dust.
Use with adequate ventilation.
Wash thoroughly after handling

LABEL FIRST AID: If airborne dust is inhaled, remove to fresh air. Seek medical attention for any breathing difficulty

HAZARDOUS MATERIALS INFORMATION SYSTEM RATINGS:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PPE	B

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied, to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.