



Material Safety Data Sheet

Section I – Identity

Identity (As Used on Label and List) : HBOS-Module (Extruded Specialty Carbon Air Purification Module)

Manufacturer Name: HBOS Specialty Carbons
2449 Darts Cove Way
Mount Pleasant, SC 29466
Tel: 843-754-0640
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Section II – Hazardous Ingredients/Identity Information

Physical State: Solid (black extruded monolith)
Odor: Odorless
Color: Black
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910:1200)

Emergency Overview: Warning! SOLID BLACK EXTRUDED CARBON OBJECTS ARE NOT READILY COMBUSTIBLE. NO SIGNIFICANT HAZARDS FOR EMERGENCY RESPONDERS.

Composition Ingredients

	<u>CAS Number</u>	<u>% by weight</u>
Carbon: Activated Carbon	7440-44-0	65-70
Potassium Iodide	7681-11-0	3-8
Inert Fillers	proprietary	22-32

Section III – Physical/Chemical Characteristics

Apparent Density: 0.38-0.45 g/cc
Decomposition Temperature: Unknown
Auto-ignition Temperature: 350⁰C (667⁰F)
Stability: The product is stable
Incompatibilities: Strong oxidizing & reducing materials, metals, & acids
Conditions of Reactivity: Not reactive

Section IV – Fire and Explosion Hazard Data

Products of combustion: Emits acrid smoke and irritating fumes when heated to decomposition, these products are carbon oxides (CO, CO₂).

Extinguishing Media
Suitable: In case of fire, use water spray (fog), foam, or dry chemical
Not Suitable: None known

Special exposure hazards: None known
Explosive properties: no specific hazard
Special protective equipment: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face operated in positive pressure mode

Special remarks on hazards: None



Section V – Reactivity Data

Stability:	Stable
Conditions to Avoid:	None
Incompatibility (Materials to Avoid):	Strong oxidizers (i.e. liquid oxygen, chlorine, permanganate, etc.
Hazardous Decomposition or Byproducts :	Combustion oxide by-products (CO and CO ₂).
Hazardous Polymerization:	Will not occur

Section VI – Health Hazard Data

Routes of Entry: Inhalation. Eye Contact

Potential Health Effects

Eyes:	No significant irritation expected. Possible mechanical irritation or corneal abrasion if product fragments contact eye
Skin:	Contact with extruded carbon may cause mild skin irritation or abrasions
Inhalation:	Dust created by cutting, grinding, or mechanically abrading may cause nose throat and respiratory tract irritation
Ingestion:	Practically non-toxic if swallowed

Toxicity Data by Product Ingredient	Test	Result	Route	Species
Potassium Iodide	LD50	1862 mg/kg	Oral	Mouse
Carbon	LD50	>5000 mg/kg	Oral	Rat

Particulates (not otherwise regulated):	OSHA PEL
	TWA: 15 mg/m ³ (total particulates)
	TWA: 5 mg/m ³ (respirable particulates)
	ACGIH TLV
	TWA: 10 mg/m ³ (inhalable particulates not otherwise listed)
	TWA: 3 mg/m ³ (respirable particulates not otherwise listed)

Section VII – Precautions for Safe Handling and Use

Engineering measures: No special ventilation needed under typical use conditions
 Safe Handling: No special safety or handling precautions are necessary for typical use conditions

Section VIII – Control Measures

Personal Protection

Eyes/face	Safety eyewear (with side shields) complying with approved standard should be used when risk assessment indicates so to avoid exposure to dusts
Skin	Leather gloves to prevent physical abrasion
Respiratory	Not formally needed
Other protection	Not applicable.

Waste Disposal Method: Dispose of modules in accordance with local, state, and federal regulations.
 Work/Hygienic Practices: Wash Thoroughly after Handling

The information contained herein is accurate to the best of our knowledge. HBOS Specialty Carbons makes no warranty with respect hereto said information and disclaims all liability from reliance therein