

**SECTION 1 - IDENTIFICATION**

**COMPANY ADDRESS:**

The Virtual Foundry, Inc  
211 S Water St  
Stoughton, WI 53589  
USA

PRODUCT NAME: **Sintering Carbon**

PRODUCT USE: Oxygen Removal

**SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

**PHYSICAL HAZARDS:**

Eye Irritation Category 2B: Contact may cause eye irritation. Dust may be slightly irritating to the eyes and respiratory tract.

Respiratory Irritation Category 3: Wet activated carbon removes oxygen from air causing a severe hazard to workers in enclosed or confined space.



**HAZARD STATEMENTS:** No information available.

**OTHER HAZARDS:** No information available.

**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

Material	CAS No.	%by Weight
Coconut Shell Carbon	68647-86-9	100.0%

**SECTION 4 - FIRST AID MEASURES**

**IF SWALLOWED:** Dust may cause mild irritation to the digestive tract resulting in nausea or diarrhea. Drink plenty of water; seek medical attention.

**IF ON SKIN OR CLOTHING:** Wash hands and contact skin with soap and water. If irritation persists, consult a physician.

**IF IN EYES:** Flush eyes with large volumes of water for at least 15 minutes lifting upper and lower eyelids occasionally. Seek medical attention if irritation develops. Rinse with water. Get medical attention if irritation is persistent.

**IF INHALED:** Dust may be generated and cause irritation. If processing causes discomfort, remove to a well ventilated area. Seek medical attention for any breathing difficulty.

**MAIN SYMPTOMS:** Redness, coughing and/or wheezing.

**NOTE TO PHYSICIAN:** Treat symptomatically.

## **SECTION 5 - FIRE FIGHTING MEASURES**

**FLAMMABILITY:** No information available.

**AUTOIGNITION TEMPERATURE:** >220°C (>428°F)

**SUITABLE EXTINGUISHING MEDIA:** Use extinguishing media suitable for the surrounding fire.

**UNSUITABLE EXTINGUISHING MEDIA:** No information available.

**SPECIFIC HAZARDS ARISING FROM THE MATERIAL:** As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Carbon monoxide and carbon dioxide gas may be emitted upon combustion of material.

**HAZARDOUS COMBUSTION PRODUCTS:** Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

**EXPLOSION DATA:** No information available.

**SENSITIVITY TO MECHANICAL IMPACT:** No information available.

**SENSITIVITY TO STATIC DISCHARGE:** No information available.

**FIRE FIGHTING INSTRUCTIONS AND FIRE FIGHTING EQUIPMENT:** No information available.

**ADDITIONAL INFORMATION:** Collect contaminated fire fighting water separately. It must not enter the sewer system.

**PERSONAL PROTECTIVE EQUIPMENT:** Wear NIOSH approved self-contained breathing apparatus suitable for the surrounding fire.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Wear protective equipment, keep unnecessary personnel away, and ventilate areas of spill.

**ENVIRONMENTAL PRECAUTIONS:** The material is not soluble, but can cause a particulate emission if discharged to waterways; therefore, dike all entrances to sewers and drains to avoid introducing the material into the waterways.

**METHODS FOR CLEANING UP:** Dike all entrances to sewers and drains. Vacuum or shovel spilled material and place in a closed container for disposal. Remove product to appropriate storage area until it can be properly disposed of in accordance with local, state and federal regulations. Avoid dust

formation.

## **SECTION 7 - HANDLING AND STORAGE**

**HANDLING:** Avoid prolonged contact with eyes and skin. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling.

**STORAGE:** Store in a cool, dry, ventilated area and in closed containers. Keep away from oxidizers, heat or flames. Store away from ignition sources.

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**ADDITIONAL PROTECTION:** Wet activated carbon removes oxygen from air posing a hazard to workers in enclosed or confined space. Before entering such an area, sample the air to assure sufficient oxygen supply. Use work procedures for low oxygen levels, observing all local, state and federal regulations.

### **ENGINEERING CONTROLS**

**Engineering Measures:** Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace and safely remove carbon black from the air. If risk of overexposure exists, wear an approved respirator. Provide adequate ventilation in the warehouse or closed storage area.

### **EXPOSURE MONITORING**

**Exposure Limits:** No information available.

### **PERSONAL PROTECTIVE EQUIPMENT:**

Use of NIOSH approved particulate filter is recommended if dust is generated in handling. The usual precautionary measures for handling chemicals should be followed, i.e. gloves, safety glasses with side shields or goggles, long sleeve shirt or lab coat, dust respiration if dusty and/or other protective clothing or equipment as determined appropriate

**Hygiene measures:** The usual precautionary measures for handling chemicals should be followed: i.e. keep away from food and beverage; remove contaminated clothing immediately; wash hands before breaks or eating; avoid contact with eyes and skin.

**Special hazard:** No information available.

**Environmental Protection:** No information available.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid

**Appearance:** Granular, pellet or flake

<b>Color:</b>	Black
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>Melting/Freezing Point:</b>	No information available.
<b>Boiling Point:</b>	No information available.
<b>Flash Point:</b>	No information available.
<b>Evaporation Rate:</b>	No information available.
<b>Flammability:</b>	>220°C (>428°F)
<b>Flammability Limits:</b>	No information available.
<b>Vapor Pressure:</b>	No information available.
<b>Vapor Density:</b>	Solid
<b>Specific gravity:</b>	No information available.
<b>Relative Density:</b>	0.4 to 0.7g/cc
<b>Water Solubility:</b>	No information available.
<b>Percent Volatile (v/v):</b>	No information available.
<b>Chemical Stability:</b>	No information available.
<b>Conditions to avoid:</b>	No information available.
<b>Solubility in other solvents:</b>	No information available.
<b>Partition Coefficient:</b>	No information available.
<b>Auto-Ignition Temperature:</b>	>220°C (>428°F)
<b>Hazardous Decomposition Products:</b>	No information available.
<b>Possibility of Hazardous Reactions:</b>	No information available.
<b>Hazardous Polymerization:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive Properties:</b>	No information available.
<b>Oxidizing Properties:</b>	No information available.

**SECTION 10 - STABILITY AND REACTIVITY**

**INCOMPATIBILITY:** No information available.

**CHEMICAL STABILITY:** Stable.

**HAZARDOUS POLYMERIZATION:** No information available.

**CONDITIONS & MATERIALS TO AVOID:** Alkali metals and strong oxidizers such as ozone, oxygen, permanganate, chlorine.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and carbon dioxide gas may be generated during combustion of this material.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Principal routes of exposure:** Skin contact.

**PRODUCT INFORMATION:**

**Acute toxicity:** None established.

**Chronic toxicity:** None established.

**Specific effects:** None established.

**Long term toxicity:** None established.

**Mutagenic effects:** Not determined on the finished product.

**Reproductive toxicity:** Not determined on the finished product.

**Carcinogenic effects:** Not determined on the finished product.

**Target organ effects:** Eyes, Respiratory system.

**Ingestion:** Dust may cause mild irritation to the digestive tract resulting in nausea or diarrhea. Drink plenty of water; seek medical attention.

**Inhalation:** Dust may be generated and cause irritation. If processing causes discomfort, remove to a well ventilated area. Seek medical attention for any breathing difficulty.

**Eye Contact:** Flush eyes with large volumes of water for at least 15 minutes lifting upper and lower eyelids occasionally. Seek medical attention if irritation develops. Rinse with water. Get medical attention if irritation is persistent.

**Symptoms related to the physical, chemical, and toxicological characteristics:** Redness. Coughing and/or wheezing.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Irritation:** Product dust may be irritating to eyes, skin, and respiratory system.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not determined on the finished product.

**Persistence and degradability:** Not determined on the finished product.

**Bioaccumulation:** Not determined on the finished product.

**Mobility:** Not determined on the finished product.

**Other adverse effects:** Not determined on the finished product.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** Vacuum or shovel material into a closed container. Storage and disposal should be in accordance with applicable local, state and federal laws and regulations. Local regulations may be more stringent than state or federal requirements. Activated Carbon is an adsorbent medium; hazard classification is generally determined by the adsorbate that the carbon has picked up. Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal.

**CONTAMINATED PACKAGING:** Dispose of surplus and contaminated materials (including sawdust) at an approved landfill or in accordance with other national or regional provisions. Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

**SECTION 14 - TRANSPORT INFORMATION**

**DOT:** Not regulated.

**MEX:** Not regulated.

**ICAO:** Not regulated.

**IATA:** Not regulated.

**IMDG:** Not regulated.

**UN NUMBER:** N/A.

**SECTION 15 - REGULATORY INFORMATION**

**DOT:** This product is not regulated by USDOT as a Hazardous Material (49 CFR 172.101). No UN code assigned. No placard required for transportation.

**SARA (TITLE III):** Not Listed.

**SARA (SECTION 313):** Not Listed.

**CALIFORNIA PROP. 65:** Not Listed.

**TSCA:** Not Listed.

**DSCL (EEC):** Listed on the DSCL inventory.

**RCRA HAZARDOUS WASTE NUMBER:** Not Listed.

Inventory Status:

TSCA (USA): Listed\*

DSL (Canada): Listed\*

NDSL (Canada): Not Listed  
 EINECS (Europe): Listed\*  
 AICS (Australia): Listed\*  
 ENCS (Japan): Not Identified\*\*  
 IECSC (People's Republic of China): Listed\*  
 PICCS (Philippines): Listed\*  
 ECL (Korea): Listed\*  
 ECN (Taiwan): Listed\*

\*\*"Listed" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

**SECTION 16 - OTHER INFORMATION, INCLUDING THE DATE OF PREPARATION OF THE LAST REVISION**

**LABEL REQUIREMENTS:** Not expected to produce significant adverse health effects when the recommended instructions for use are followed.

NFPA HAZARD RATINGS	HEALTH	0
	FLAMMABILITY	1
	PHYSICAL HAZARD	0
	INSTABILITY	-
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

HMIS HAZARD RATINGS	HEALTH	0
	FLAMMABILITY	1
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	X
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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**REVISED DATE:** December 2021