

## SECTION 1 - IDENTIFICATION

### COMPANY ADDRESS:

The Virtual Foundry, Inc  
1471 US HWY 51  
Stoughton, WI 53589  
USA

**EMERGENCY PHONE NUMBER:** Information about the product can be obtained at (608) 509-7146 (Monitored 9am - 5pm Central Time USA Monday - Friday).  
For all emergency calls, call the relevant emergency number for your country.

**PRODUCT NAME:** Sintering Carbon

**PRODUCT USE:** Oxygen control for sintering 3D printed metal parts.

## SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

**CLASSIFICATION:** Irritant, flammable.

**SIGNAL WORD:** Warning

**PHYSICAL HAZARDS:** No information available.

**HAZARD STATEMENTS:** Combustible Dust.

**OTHER HAZARDS:** The product is not intended for applications in which it may come in contact with food or drinking water. Material does not ignite easily, though precautions against dust explosion are recommended. Wet activated carbon depletes oxygen from the air, therefore the product should not get wet.



## SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

Material Name	CAS No.	% by Weight
Activated Carbon	7440-44-0	100.0

## SECTION 4 - FIRST AID MEASURES

**IF SWALLOWED:** Move to fresh air. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Seek medical attention immediately.

**IF ON SKIN OR CLOTHING:** Wash hands and contact skin with soap and water.

**IF IN EYES:** Do not rub eyes. Rinse with water. Seek medical attention if irritation is persistent.

**IF INHALED:** Rinse mouth with water. Dust may be generated and cause irritation. If use causes discomfort, move to a well ventilated area and seek medical attention.

**MAIN SYMPTOMS:** Redness, coughing and/or wheezing. Eye irritation may occur when in direct contact with eyes.

**NOTE TO PHYSICIAN:** Treat symptomatically.

## SECTION 5 - FIRE FIGHTING MEASURES

### FLAMMABILITY

**AUTOIGNITION TEMPERATURE:** 350°C

**SUITABLE EXTINGUISHING MEDIA:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Apply extinguishing media carefully to avoid creating airborne dust.

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use a water jet as an extinguisher. Avoid high pressure media, which could cause the formation of a potentially explosible dust-air mixture.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Material burns slowly without flame. Activated carbon which has been allowed to smolder for a long time in a confined space may accumulate carbon monoxide above its permissible exposure limit.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon oxides

**SENSITIVITY TO MECHANICAL IMPACT:** Not sensitive.

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

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

**ADDITIONAL INFORMATION:** Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

**PERSONAL PROTECTIVE EQUIPMENT:** MSHA/NIOSH approved self-contained breathing apparatus or equivalent.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Standard personal protection equipment. Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of ignition. Sweep up to prevent slipping hazards.

**ENVIRONMENTAL PRECAUTIONS:** Should not be released into the environment; may be dangerous to birds and small animals. Do not flush into surface water or the sanitary sewer system. Do not allow material to contaminate the groundwater system.

**METHODS FOR CLEANING UP:** Sweep up and put into an approved waste container for disposal.

## SECTION 7 - HANDLING AND STORAGE

**HANDLING:** Avoid dust formation. Work in a ventilated area. Low hazard for usual handling.

**STORAGE:** Store in a cool, dry environment; keep away from heat, sparks, flames, and oxidizers.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE LIMITS

Material Name	CAS No.	% by Weight	ACGIH TLV (Mg/M <sup>3</sup> )	OSHA PEL (Mg/M <sup>3</sup> )
Activated Carbon	68647-86-9	100.0	-	15.0 (Total) 5.0 (Resp.)

TLV: Threshold Limit Value over 8 hours of work.

PEL: Permissible Exposure Limit

### ENGINEERING CONTROLS

**Engineering Measures:** Use local exhaust as needed.

### PERSONAL PROTECTIVE EQUIPMENT

**Eye protection:** Avoid contact with eyes. Wear safety glasses.

**Skin protection:** Wear appropriate protective clothing to minimize risk of injury to the skin from contact with dust or physical abrasion. Wear long sleeved/impervious clothing if contact is probable and skin is sensitive. Protect contact with skin when processing; wear insulated safety gloves; wash hands after handling. Coveralls should be made from fire resistive materials which tend to not accumulate static charges. They should be designed in such a way as to avoid accumulation of dust in cuffs, pockets, etc.

**Respiratory protection:** Process in a well-ventilated area; respirator recommended.

**Hand protection:** Wash hands after handling.

**Hygiene measures:** Provide regular cleaning of equipment, work area and clothing. Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Do not breathe dust. Use personal protective equipment as required.

**Special hazard:** No information available.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Granules
Color:	Black
Odor:	Slight
Odor Threshold:	No information available.

<b>pH:</b>	No information available.
<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>	No information available.
<b>Flammability Limits:</b>	No information available.
<b>Vapor Pressure:</b>	No information available.
<b>Vapor Density:</b>	No information available.
<b>Relative Density:</b>	No information available.
<b>Water Solubility:</b>	Insoluble
<b>Solubility in other solvents:</b>	No information available.
<b>Chemical Stability:</b>	No information available.
<b>Partition Coefficient:</b>	No information available.
<b>Auto-Ignition Temperature:</b>	350°C (662°F)
<b>Decomposition Temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.

## SECTION 10 – STABILITY AND REACTIVITY

**REACTIVITY:** Not reactive under normal conditions.

**INCOMPATIBILITY:** Keep away from strong oxidizing acids and other strong oxidants.

**CHEMICAL STABILITY:** Stable under recommended storage conditions.

**HAZARDOUS POLYMERIZATION:** Will not undergo hazardous polymerization.

**CONDITIONS & MATERIALS TO AVOID:** Avoid open flames. Contact with strong oxidizers like chlorine, liquid oxygen, permanganate, ozone, may result in rapid combustion and possible explosion. Wet activated carbon depletes oxygen from air

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

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

### PRODUCT INFORMATION:

**Toxicity:** None established.

**Carcinogenic effects:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

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

**Ingestion:** May cause gastrointestinal discomfort if consumed in large amounts. Not an expected route of exposure.

**Inhalation:** Inhalation of dust in high concentration may cause irritation of the respiratory system.

**Eye Contact:** Dust contact with the eyes can lead to mechanical irritation.

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

**Delayed, immediate, and chronic effects from short and long term exposure:** May cause skin irritation.

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

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** Pellets may be eaten by wildlife and should be swept up and placed in closed containers.

**Persistence and degradability:** Not readily biodegradable.

**Bioaccumulation:** Not expected to bioconcentrate or bioaccumulate.

**Other adverse effects:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

## SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** Dispose in compliance with Federal, State, and local disposal laws for nonhazardous waste. Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used containers. Contact the manufacturer with questions.

**CONTAMINATED PACKAGING:** Dispose in compliance with Federal, State, and local disposal laws for nonhazardous waste. Packaging may be reused.

## SECTION 14 - TRANSPORT INFORMATION

**DOT:** Not regulated.

**MEX:** Not regulated.

**ICAO:** Not regulated.

**IATA:** Not regulated.

**IMDG:** Not regulated.

**UN NUMBER:** N/A.

**Transportation In Bulk:** Not Applicable.

**Special Precautions For Transport:** None.

## SECTION 15 - REGULATORY INFORMATION

Regulatory requirements are subject to change and may differ between locations. It is the User's responsibility to ensure that all activities comply with all federal, state or provincial, and local laws and regulations. The following specific information is made for the purpose of complying with numerous national, federal, state or provincial, and local laws and regulations. See other sections for health and safety 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:** Listed.

### State Regulations:

**New Jersey:** The following materials are listed: Activated Carbon

**CLEAN AIR ACT, TITLE VI (1990):** This product does not contain, nor was it manufactured using ozone depleting chemicals.

### Inventory Status:

TSCA (USA): Listed\*

DSL (Canada): Listed\*

EINECS (Europe): Listed\*

AICS (Australia): Listed\*

ENCS (Japan): Listed\*

IECSC (People's Republic of China): Listed\*

KECL (Korea): Listed\*

TCSI (Taiwan): Listed\*

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

## 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	1
	FLAMMABILITY	1
	PHYSICAL HAZARD	0
	INSTABILITY	-

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

**DISCLAIMER:** The information provided in this SDS is based on available data from reliable sources and is correct to the best of The Virtual Foundry, Inc's knowledge. The Virtual Foundry, Inc makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

REVISED DATE:

January 2026