Coconut **Shell** Activated Carbon —**Safety Data Sheet (SDS)**

Contact Information

Supplier/Manufacturer: Henan CarbonFresh Activated Carbon Co., Ltd.
Website:https://www.carbonfreshcn.com/
Email: info@carbonfreshcn.com
Phone: (+86) 155-3801-7198
Address: Innovation Park, Enterprise Headquarters Base, High-tech Zone, Zhengzhou, Henan Province, China

Section 1: Chemical Product and Company Identification

· **Chemical Family:** Carbon
· **Formula:** Carbon
· **Chemical Name:** COCONUT SHELL ACTIVATED CARBON
· **Product Use:** Various uses

Section 2 : Composition / Information on Ingredients

· **Component:** Activated Carbon (Coconut Shell)
· **CAS #:** 7440-44-0
· **Percent:** 90–100%
This product is considered non-hazardous by the criteria specified in 29 CFR 1910.1200 (Hazard Communication).

Section 3 : Hazards Identification

Emergency Overview
Product is a black granular or powder material. May be irritating to eyes, skin and respiratory tract. High airborne dust concentrations may pose an explosion hazard. Wet activated carbon present in a confined space may produce an oxygen-deficient atmosphere and presents a risk of asphyxiation to persons entering those areas.
Potential Health Effects
· **Eyes:** Contact may produce mechanical eye irritation.
· **Skin:** Skin irritation would not be expected from single short-term exposure. Prolonged or repeated contact may produce some irritation.
· **Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and constipation. Small amounts in solution, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.
· **Inhalation:** Overexposure to dusts may produce irritation of the respiratory system. Wet activated carbon may cause asphyxiation by adsorbing oxygen from confined spaces.
HMIS Ratings: Health: 1 · Fire: 1 · Reactivity: 1
Personal Protection: safety glasses with side shields; impervious gloves for prolonged contact
Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic hazard

Section 4 : First Aid Measure

· **Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
· **Skin:** Wash with soap and large amounts of water. If irritation persists, seek medical attention.
· **Ingestion:** Use of this product for medicinal purposes should be conducted only by qualified medical personnel. If swallowed, get immediate medical attention or advice — do not induce vomiting unless instructed by medical personnel.

· **Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. Seek medical attention if irritation persists.
Notes to Physician: Product in solution, if aspirated into the lungs, may cause chemical pneumonitis; treat appropriately.
(Reference: New Pig MSDS# MSD-V126)

Section5:Fire-FightingMeasures

· **Flash Point:** Not available
· **Method Used:** Not available
· **Upper Flammable Limit (UFL):** Not available
· **Lower Flammable Limit (LFL):** Not available
· **Auto Ignition:** Not available
· **Flammability Classification:** Not available

General Fire Hazards
Activated carbon exposed to air is a potential fire hazard due to very high surface area and absorptive capacity. 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.

Hazardous Combustion Products
Combustion 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.

NFPA Ratings: Health: 1 · Fire: 1 · Reactivity: 1

Section 6: AccidentalReleaseMeasures

· **Containment Procedures:** Contain the discharged material. If sweeping of a contaminated area is necessary, use a dust suppressant agent.
· **Clean-Up Procedures:** Wear appropriate protective equipment and clothing. Sweep up or vacuum spilled material. Use of a moist absorbent is recommended.
· **Evacuation Procedures:** None necessary.
· **Special Procedures:** None.

Section 7 :Handing and Storage

· **Handling Procedures:** Avoid contact with eyes. Avoid prolonged or repeated skin contact. Wash thoroughly after handling. Avoid formation of airborne dusts. Use with adequate ventilation.
· **Storage Procedures:** Keep container tightly closed in a cool, well-ventilated place. Store away from heat, ignition sources, combustible materials and incompatible materials.

Section 8 :Exposure Controls/Personal Protection

Exposure Guidelines
· Exposures should be minimized in accordance with good industrial hygiene practices. Manufacturer recommends following exposure limits for nuisance dusts.

· OSHA PEL (respirable fraction): 5 mg/m³ (TWA)
· OSHA PEL (total dust): 15 mg/m³ (TWA)
· ACGIH TLV (Particulates Not Otherwise Classified, PNOC): 10 mg/m³ (TWA)
· NIOSH: no established RELs for activated carbon — see Appendix D

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

Personal Protective Equipment (PPE)

· **Eyes/Face:** Wear safety glasses with side shields.
· **Skin:** Wear impervious gloves for prolonged contact.
· **Respiratory:** If ventilation is insufficient, provide appropriate NIOSH/MSHA approved respiratory protection. Confined spaces containing wet activated carbon may be oxygen-deficient; use appropriate protective measures.
· **General:** Use good industrial hygiene practices.

Section 9 : Physical & Chemical Properties

· **Appearance:** Black granules or powder
· **Odor:** Odorless
· **Physical State:** Solid
· **pH:** Not applicable
· **Vapor Pressure:** Not applicable
· **Vapor Density:** Not applicable
· **Boiling Point:** Not available
· **Melting Point:** 3500 °C
· **Solubility (H2O):** Insoluble
· **Specific Gravity:** 0.38–0.44 @ 25 °C
· **Freezing Point:** Not available

Section 10 : Chemical Stability & Reactivity Information

· **Chemical Stability:** Stable

Conditions to Avoid

Avoid accumulation of airborne dusts. Dusts may be explosive when exposed to heat, flame, ignition sources, combustible material and incompatible materials.

Incompatibility

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. Unsaturated oils (such as linseed oil) may be spontaneously flammable when distributed on activated carbon.

Hazardous Decomposition

Decomposition may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials adsorbed onto the carbon may be released.

Hazardous Polymerization

Will not occur.

Section 11 : Toxicological Information

Acute Toxicity

· No specific toxicity data available for this product. Overexposure to activated carbon dusts is expected to produce mild irritation to the respiratory tract, skin and eyes. Chronic skin exposure may discolor hair follicles; chronic inhalation may produce carbon deposition in the lungs.

· Oral LD (rats): > 5 g/kg

Carcinogenicity

· No carcinogenicity data available for this product. None of the components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology / Neurotoxicity / Mutagenicity / Teratogenicity

· No data available.

Other Toxicological Information

· No additional information available.

Section 12 : Ecological Information

· **Ecotoxicity:** No data available.

· **Environmental Fate:** No data available.

Section 13 : Disposal Considerations

US EPA Waste Number & Descriptions

· Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

· No EPA Waste Numbers applicable to this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

Section 14 :Transportation Information

US DOT Information

· **Shipping Name:** Not regulated as a dangerous material

· **Hazard Class:** Not regulated

· **UN/NA #:** None

· **Packing Group:** None

· **Required Label(s):** None

Additional Info: The carbon present in this product is prepared by a steam activated process. Testing using methods in 49 CFR 173 Appendix E has shown the product does not meet the definition of Hazard Class 4. 2.

Section 15 - Regulatory Information

US Federal Regulations

· No additional information.

Component Analysis

· None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

· None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

(Reference: New Pig MSDS# MSD-V126)

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Section 16 :Other Information

Other Information: Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.
Key/Legend: EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration
Contact: Mrs.Wu
Contact Phone: (86)155-3801-7198
This is the end of MSDS PICA - Coconut Shell
(Reference: New Pig MSDS# MSD-V126)