SAFETY DATA SHEET COCONUT SHELL ACTIVATED CARBON

DATE OF ISSUE: 02/24/2015

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: ACTIVATED CARBON – Coconut Shell Based Product Use: According to Manufacturer's recommendation

Company Identification: CALIFORNIA CARBON CO., INC.

2825 E. GRANT ST.

WILMINGTON, CA 90744

Telephone Number: 1-800-663-5830

1-562-436-1962

Fax Number: 1-562-437-1217 Email: CCarbon2@aol.com

SECTION II - HAZARDS IDENTIFICATION

Special – n/a W = Water Reactive

OX = Oxidizer

Protective Equipment: Safety glasses with side shield or goggles, gloves, long sleeve shirt or lab coat, long

pants recommended.

Health Effects: See Section IV Environmental Effects: See Section XII



Hazard Symbol:

Eye Irritation Category 2B Respiratory Irritation Category 3 Contact may cause eye irritation. Dust may be slightly irritating to eyes and respiratory track.

Wet activated carbon removes oxygen from air causing a severe hazard

to workers in enclosed or confined space.

Precautionary Statements

Prevention: Avoid generation of dust during handling. Avoid breathing dust. Wash thoroughly after handling.

Use in a well-ventilated area.

Response: IF INHALED: Remove to fresh air.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present.

Continue rinsing.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Container Labeling: Not implemented at this time.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity (% by weight)	Common Name	CAS No.	Impurities
100%	Activated Carbon	68647-86-9	None

SECTION IV - FIRST AID MEASURES

Routes of Exposure

Inhalation: Dust may cause mild irritation to the upper respiratory tract.

Skin: Dust may cause mild irritation, possible reddening. Eyes: Dust may cause mild irritation, possible reddening.

Ingestion: Dust may cause mild irritation to digestive track resulting in nausea or diarrhea.

Signs/Symptoms of Exposure: Dust may cause irritation and redness of eyes, irritation of skin and respiratory system.

The effects of long-term, low-level exposures to this product have not been determined.

Emergency and First Aid

Procedures: For Eye Contact: Immediately flush with copious amounts of water for at least 15

minutes, lifting both the upper and lower lids occasionally; seek medical attention.

For Skin Contact: Wash with soap and water; seek medical attention.

For Inhalation: Remove to fresh air and rest as needed; seek medical attention for any

breathing difficulty.

For Ingestion: Drink plenty of water; seek medical attention.

Medical Conditions Generally

Aggravated by Exposure: People with pre-existing skin conditions or eye problems or impaired respiratory function

may be more susceptible to the potential effects of the dust.

SECTION V - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use an exti

Specific Hazards:

Use an extinguishing media suitable for the surrounding fire.

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.

Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid

combustion.

Protective Equipment

and Procedures: Wear NIOSH approved self-contained breathing apparatus suitable for the surrounding

fire.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective equipment, keep unnecessary personnel away, and ventilate area 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.

Containment and Clean-up: Dike all entrances to sewers and drains. Vacuum or shovel spilled material and place in

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 VII - HANDLING AND STORAGE

Precautions for Safe 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.

Conditions for Safe Storage: Store in cool, dry, ventilated area and in closed containers. Keep away

from oxidizers, heat or flames. Store away from ignition sources.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: 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: 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 warehouse or closed storage area.

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.

General Hygiene: 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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State (Appearance): Black granular, pellet or flake

N/A Color: Black Molecular Weight: Odor: None Odor Threshold: None pH Value: N/A Vapor Pressure: Λ Melting Point: N/A Vapor Density: Solid

Freezing Point: N/A Relative Density: 0.4 to 0.7 g/ml

Initial Boiling Point: N/A Partition Coefficient: N/A

Flashpoint: N/A Solubility: Not Soluble Evaporation Rate: N/A Auto Ignition Temp.: >220 Deg. C

Flammability: >220 Deg. C Decomp. Temp.: N/A UEL: N/A Viscosity: N/A

LEL: N/A

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable Conditions to avoid: None Possibility of Hazardous Reaction: Will Not Occur Conditions to avoid: None

Caution: High concentrations of organics in air will cause temperature rise due to heat of adsorption. At very high

concentration levels this may result in an exothermic reaction, referred to as a bed fire. High

concentrations of Ketones and Aldehydes may cause a bed temperature rise due to adsorption and

oxidation.

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 XI – TOXICOLOGICAL INFORMATION

Acute Toxicity: Not Classified

Inhalation, Ingestion, Eye Irritation, Skin Irritation: See Section IV.

Sensitization: Not determined on the finished product.

Target Organ(s) or System: Eyes, skin and upper respiratory system.

Signs and Symptoms of Exposure: See Sections III and IV

Chronic Effects: Carcinogenicity, Mutagenicity, Reproductive Effects, Developmental Factors: Not determined on the

finished product.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity, Persistence/Degradability, Bioaccumulation/Accumulation, Mobility in Environmental Media, Other Adverse Effects: Not determined on the finished product.

SECTION XIII - DISPOSAL CONSIDERATIONS

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 media; 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.

SECTION XIV - TRANSPORT INFORMATION

Ship in accordance with all local, state, and federal laws and regulations.

UN Number: Not regulated UN Proper Shipping Name: N/A Transport Hazard Classes: N/A

Packing Group: N/A Sea Pollutants: N/A

Special Precautions for user related to transport: N/A

Note: Under the UN classification for activated carbon, all activated carbons have been identified as a class 4.2 product. However this product has been tested according to the <u>United Nations Transport of Dangerous Goods</u> test protocol for a "self-heating substance" and it has been determined that this product does not meet the definition of a self-heating substance, or any other hazard class, and therefore should not be listed as a hazardous material. This information is applicable only for the Activated Carbon product identified in this document.

SECTION XV - REGULATORY INFORMATION

Carbon (7440-44-0): Listed on the United States TSCA Inventory

SECTION XVI - OTHER INFORMATION

The information contained herein is based on data considered accurate in light of current formulation. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.