Safety Data Sheet
according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: March 22, 2023

1 – Identification

Product identifier

· **Trade name: Activated Carbon, Coconut Shell Derived**
· **CAS Number:** 74440.44.0

· **Recommended use:** Industrial uses.
· **Restrictions on use:** Not intended for food and drug use.
·
Details of the supplier of the Safety Data Sheet
· **Manufacturer/Supplier:**
Asbury Carbons, Inc.
PO Box 144, 405 Old Main Street
Asbury, NJ 08802 USA
+1 908-537-2155
· **Emergency telephone number:**
ChemTel 800-255-3924 (North America)
+1 (813)248-0585 (International)

2 - Hazards Identification

Classification of the substance or mixture:
Combustible Dust - May form combustible dust concentrations in air.

Label Elements
GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:** none required

· **Signal word:** Warning

· **Hazard statements:** May form combustible dust concentrations in air.

· **Precautionary statements:**
Prevent dust accumulations to minimize explosion hazard.
Keep away from all ignition sources including heat, sparks and flame.

· **Additional information:**
Read the label and safety data sheet before use.
·
Other hazards: May form explosible dust-air mixture if dispersed.

3 – Composition/Information on Ingredients

Chemical characterization: Substances
CAS No. Description: 74440.44.4 Activated Carbon ≥90.0% (balance is inert mixed ash)

4 – First Aid Measures
Description of first aid measures

· **After inhalation:** Remove victims to fresh air. Supply resuscitation if victim is not breathing. Seek medical attention if irritation persists.

· **After skin contact:**
Wash with water to avoid drying of skin.
· **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Give one or two glasses of water (never give liquid to an unconscious person). Seek medical attention if gastrointestinal symptoms develop.

·**Most important symptoms and effects, both acute and delayed:** No relevant information available.

·**Indication of any immediate medical attention and special treatment needed:**
If medical advice is needed, have product container or label at hand.
If necessary oxygen respiration treatment.

5 – Fire Fighting Measures

Extinguishing media
· **Suitable extinguishing agents:** Chemical foam, carbon dioxide, water fog.
· **For safety reasons unsuitable extinguishing agents:** Direct water jet - may spread fire.
· **Special hazards arising from the substance or mixture**
Can pose a dust explosion hazard if dispersed in air. Avoid ignition sources. Dust Class ST1, MIE greater than 10J. During heating or in case of fire poisonous gases are produced.
Advice for firefighters
· **Protective equipment:**
Wear full-face, self-contained NIOSH-approved respiratory protective device.
Wear fully protective suit.

6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Avoid formation of dust.
Particular danger of slipping on leaked/spilled product.
· **Environmental precautions** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up**
Sweep up and place into an appropriate container.
Send for recovery or disposal in suitable receptacles.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 – Handling and Storage

Handling
· **Precautions for safe handling:**
Use only in well ventilated areas. Avoid breathing dust.
Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed.
Ensure eye wash and safety shower are available for use.
Take precautionary measures against static discharges by binding and grounding equipment.
Activated carbon is an electrical conductor, and should not be allowed to accumulate as dust. Electrical equipment, outlets, lights and motors in dry carbon handling areas should be sealed against exposure to

carbon dust.

· **Information about protection against explosions and fires:**
Dust can combine with air to form an explosive mixture if exposed to a strong source of ignition energy. Dust class ST1, MIE greater that 10 J (very low hazard of spark ignition)

Conditions for safe storage, including any incompatibilities

· **Requirements to be met by storerooms and receptacles:**
Store in cool, dry, well-ventilated location in well-sealed receptacles, away from any fire hazards.

· **Information about storage in one common storage facility:**
Store away from oxidizing agents.

· **Specific end use(s)** No relevant information available.

8 – Exposure Controls/ Personal Protection

Control parameters

· **Components with limit values that require monitoring at the workplace:**
Insoluble particles not otherwise specified (PNOS):
10 mg/m3 (inhalable dust), 3 mg/m3 (respirable dust) (source: ACGIH)

Exposure controls

· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.

· **Engineering controls:** Provide adequate ventilation to limit exposure.

· **Breathing equipment:** Respiratory protection required. Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

· **Protection of hands:** Protective gloves. The glove material has to be impermeable and resistant to the product.

· **Eye protection:** Safety glasses. Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection: Protective work clothing**

· **Limitation and supervision of exposure into the environment:** No relevant information available.

· **Risk management measures:** No relevant information available.

9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance:

Form: Granulate or powder
Color: Black

Odor: Odorless
Odor threshold: Not determined.

pH-value: 6.0 – 11.0
Melting point/Melting range: 3652 – 3697 deg C
Boiling point/Boiling range: Not determined.

Flash point: 500-600 deg C
Flammability: Steam activated carbon is combustible but not easily ignitable below 300 deg C.
Auto-ignition temperature: Self-ignition of dust clouds in air will not occur until well over 500 deg C.
Decomposition temperature: Not determined.
Danger of explosion: Can pose a dust explosion hazard if dispersed in air. Combustible dust class ST1: K_{ST} <200 bar m/s; Minimum Ignition Energy (MIE) greater than 10 joules.

Explosion limits

Lower: Not determined.
Upper: Not determined.

Oxidizing properties: Non-oxidizing.

Vapor pressure: Not determined.
Apparent density: 0.5
Relative density: 1.8 – 2.1
Vapor density: Not applicable.
Evaporation rate: Not applicable.

Solubility in / Miscibility with Water: Insoluble.
Partition coefficient (n-octanol/water): Not determined.
Viscosity
Dynamic: Not applicable.
Kinematic: Not applicable.

Other information: No relevant information available.

10 – Stability and Reactivity

Reactivity: No relevant information available.
Chemical stability: Stable under normal temperatures and pressures.
Possibility of hazardous reactions:
May form combustible dust concentrations in air. See section 9
Reacts with strong oxidizing agents.
Conditions to avoid: Excessive heat, direct sunlight, moisture, and static discharges
Incompatible materials: Strong oxidizers
Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 – Toxicological Information

Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.
LD/LC50 values that are relevant for classification: None.
Primary irritant effect:
· **On the skin:** Based on available data, the classification criteria are not met.
· **On the eye:** Based on available data, the classification criteria are not met.
· **Sensitization:** Based on available data, the classification criteria are not met.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.
NTP (National Toxicology Program): None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

Probable route(s) of exposure:
Ingestion, Inhalation, Eye contact, Skin contact

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: In situations of repeated excessive lung overload due to a high airborne concentration of particles of respirable size for extended periods of time, pneumoconiosis may develop.
Aspiration hazard: Based on available data, the classification criteria are not met.

12 – Ecological Information

Toxicity
Aquatic toxicity: No relevant information available.

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Persistence and degradability: No relevant information available.
Bioaccumulative potential: No relevant information available.
Mobility in soil: Insoluble in aqueous environment. Product is separable via filtration or sedimentation.
Other adverse effects: No relevant information available.

13 – Disposal Considerations

Waste treatment methods
Recommendation:
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Do not dispose in sewers or waterways

Uncleaned packagings
Recommendation: Disposal must be made according to official regulations.

14 – Transport Information

UN-Number
DOT, ADR/RID/ADN, IMDG, IATA: 1362

UN proper shipping name
DOT, ADR/RID/ADN, IMDG, IATA: Activated carbon

Transport hazard class(es)
DOT, ADR/RID/ADN, IMDG, IATA: Not regulated.

Packing group
DOT, ADR/RID/ADN, IMDG, IATA: Not regulated.

Environmental hazards
Marine pollutant: No

Special precautions for user: Product has been tested and ***does not*** meet the definition of a self-heating substance (or any other hazard class). Material is classified as non-hazardous.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 – Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)

SARA Section 302 (extremely hazardous substances): None of the ingredients are listed.
SARA Section 313 (Specific toxic chemical listings): None of the ingredients are listed.
TSCA (Toxic Substances Control Act): All ingredients are listed or exempt.

Proposition 65 (California)

Chemicals known to cause cancer: None of the ingredients are listed.
Chemicals known to cause developmental toxicity for females: None of the ingredients are listed.
Chemicals known to cause developmental toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.

EPA (Environmental Protection Agency):
None of the ingredients are listed.

IARC (International Agency for Research on Cancer):
None of the ingredients are listed.

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Canadian Domestic Substances List (DSL):
All ingredients are listed or exempt.

16 – Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
OSHA: Occupational Safety & Health Administration
Carc. 1A: Carcinogenicity – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services
(ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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For other local and industry-specific regulatory declarations, please visit
https://asbury.com/resources/asbury-carbons-regulatory-statements/