



Premium Coconut Shell GAC SAFETY DATA SHEET

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1. General Information

NAME: Activated Carbon

TRADE NAME AND SYNONYMS: Granulated Activated Carbon/GAC

CHEMICAL NAME: Carbon, Activated Carbon, Activated Charcoal

CAS NUMBER: 7440-44-0

2. Hazardous Identification

This material is 100% activated carbon. There are no established PEL, TWA or TLV values for this material. Caution should be taken for respirable dust.

The ACGIH TWA for respirable dust is 2.2 mg/m³. This product has no carcinogenic properties.

EYE IRRITATION: H320-Category 2B

RESPIRATORY IRRITATION: H335-Category 3

WARNING:

Contact may cause eye irritation.

Contact may cause respiratory irritation.

Wet activated carbon removes oxygen from air causing severe health hazards to workers in enclosed or confined spaces.

3. Physical Data

Description:	Colorless black solid, granule, pellet or flake/powder
Vapor Pressure:	N/A
Boiling Point:	N/A
Vapor Density:	N/A
Volatile Percent:	N/A
Solubility:	Insoluble
Apparent Density:	0.48-0.52 g/cc
Stability:	Stable
Incompatibility:	Avoid contact with strong oxidizers

4. Health Data

Overexposure Effects:

This product is non-toxic through ingestion. It is non-toxic through skin absorption. It is not a primary skin irritant. No sensitization effects are known. It is non-toxic through inhalation. Due to its physical properties, carbon dust may irritate the respiratory system and produce eye irritation. In case of eye contact, flush with water for at least 15 minutes. Contact a doctor immediately. For inhalation, remove the person from the area for fresh air.

First Aid:

In case of eye contact, flush with water for at least 15 minutes. Contact a doctor immediately. For inhalation, remove the person from the area.

5. Spill, Leakage or Fire Procedures

Reportable Quantities:

No EPA RQ for this product.

If Spilled or Leaked:

Sweep/shovel up and discard or repackage.

Waste Disposal Method:

Unused carbon may be disposed of in refuse container.

6. Fire-Fighting Measures

Fire Fighting Procedures:

If possible to safely move smoldering activated carbon to a non-hazardous area, preferably outdoors. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

7. Handling & Storage

Protective Gloves:

Recommended.

Eye Protection:

Safety glasses recommended.

Other Protective Clothing:

None.

Ventilation:

Local exhausts to control dust.

Work Hygienic Practices:

Wash thoroughly after handling.

Respiratory Protection:

A high efficiency particulate filter is recommended for dust.

8. Exposure Control/Personal Protection

- EYE PROTECTION:** Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may be likely, dust tight goggles are recommended. Have any eye flushing equipment available.
- SKIN PROTECTION:** Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.
- RESPIRATORY PROTECTION:** Keep dust exposure to a minimum level. Use appropriate NIOSH/MSHA approved respirators with filters for dust. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer.

9. Physical and Chemical Properties

Boiling Point, C	N/A	Evaporation Rate	N/A
Bulk Density - Granular Grades	21-34 lbs/ft ³	Freezing Point, C	N/A
Bulk Density - Powder Grades	15-35 lbs/ft ³	Percentage of Volatiles	N/A
Vapor Pressure	N/A	Solubility in Water	Insoluble
Vapor Density	N/A	Appearance and Odor	Color less Black Granular, powder with No order.

10. Stability and Reactivity

- STABILITY:** This product is stable under the specified conditions of storage, shipment and use.
- INCOMPATIBILITY:** Contact with liquid oxygen, chlorine, oxidizers or permanganate, etc. may result in rapid combustion. Avoid contact with strong acids
- HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxide of Carbon
- HAZARDOUS POLYMERIZATION:** Does not occur

11. Toxicological Information

This material is non-toxic in its original state. Used activated carbon may exhibit characteristics of the adsorbed material.

12. Ecological Information

- ECOLOGICAL INFORMATION:** This material, in its original state, is not harmful to the environment. Used activated carbon may exhibit characteristics of the adsorbed material.

13. Disposal Considerations

Activated carbon, in its original state is not a hazardous material or hazardous waste. Follow applicable local and governmental regulations for waste disposal.

Used activated carbon may become classified as hazardous waste depending upon the application. Please refer to applicable local and governmental regulations for disposal.

Recycling (Reactivation) may be viable alternative to disposal. Contact Prominent Systems Inc for more information.

14. Transport Information

DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:	Activated carbon, charcoal (Not DOT Regulated)
HAZARD CLASS:	Not Applicable
ID NUMBER:	Not Applicable
PACKING GROUP:	Not Applicable
LABEL STATEMENT:	Not Applicable
FREIGHT CLASSIFICATION:	STCC Code - #2899643 NMFC #040560

15. Regulatory Information

FEDERAL REGULATIONS:

OSHA Hazard Communication:	See "Particulates not otherwise regulated," in Table Z-1 Standard, 29CFR1910.1200
CERCLA/SUPERFUND, 40CFR117, 302: SARA/SUPERFUND:	Notification of spills of this material is not required. Section 302 – Extremely Hazardous Substance (40CFR355): This product is not listed as an extremely hazardous substance. Section 313 – List of Toxic Chemicals: This product is not listed.
Toxic Substances Control Act, 40CFR710:	Activated carbon is on the inventory list.
Resource Conservation and Recovery Act:	Activated carbon, in its original state, does not meet the criteria of hazardous waste.

16. Long Term Overexposure Effects

Wet activated carbon removes oxygen from air causing a sever hazard to workers in confined spaces. Sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, in accordance with all local, state and federal regulations.

17. Other Information

Wet Activated carbon adsorbs Oxygen from air causing a severe hazard to workers in confined spaces.

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