

Material Safety Data Sheet (MSDS)

Product Name: Coconut Shell Charcoal Powder Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

Product Name: Coconut Shell Charcoal Powder (Food Grade)

Synonyms: Activated Charcoal (Coconut-Based), Coconut Carbon Powder

Recommended Use: Food industry additive, purification aid, filtration media, natural colorant

Restrictions on Use: Not intended for medical or pharmaceutical formulation without processing.

2. Hazard Identification

Classification: Not classified as hazardous under normal handling and usage.

Hazard Statements:

- May cause mild irritation to eyes and respiratory tract due to dust.
- Non-toxic and non-flammable under standard conditions.

Precautionary Statements:

- Avoid breathing dust.
- Use adequate ventilation.

- Avoid contact with eyes.
- Keep away from strong oxidizing agents.

3. Composition / Information on Ingredients

Substance: Coconut Shell Charcoal Powder

CAS No.: 16291-96-6

Chemical Formula: C

Purity: ≥99% (Carbon content)

Nature: Natural, Food Grade

4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if irritation persists.
- **Skin Contact:** Wash with mild soap and water.
- **Eye Contact:** Rinse thoroughly with water for several minutes; consult a doctor if discomfort continues.
- **Ingestion:** Rinse mouth with water; product is non-toxic but seek medical advice if discomfort occurs.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, carbon dioxide, or foam.
- **Unsuitable Media:** Do not use high-pressure water jets directly on powder.
- **Special Hazards:** Fine dust may form explosive mixtures with air.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid generating dust.
- Sweep or vacuum without creating airborne dust.
- Dispose of in accordance with local regulations.
- Use personal protective equipment (mask, goggles).

7. Handling and Storage

- Handle in well-ventilated area.
- Avoid breathing dust and contact with eyes.
- Store in a cool, dry, well-ventilated area away from moisture and oxidizing materials.
- Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use local exhaust ventilation.
- **Respiratory Protection:** Dust mask recommended during handling.
- **Eye Protection:** Safety goggles.
- **Skin Protection:** Gloves and protective clothing.
- **Hygiene Measures:** Wash hands after handling; avoid eating or drinking during use.

9. Physical and Chemical Properties

- **Appearance:** Fine black powder
- **Odor:** Odorless
- **pH (1% solution):** Neutral (6.5–7.5)
- **Boiling Point:** Not applicable
- **Melting Point:** ~3550°C (Carbon sublimation point)
- **Solubility:** Insoluble in water
- **Bulk Density:** 0.4–0.6 g/cm³
- **Flash Point:** Not applicable
- **Flammability:** Non-flammable in solid form; combustible dust possible.

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.

- **Incompatible Materials:** Strong oxidizers (e.g., nitric acid, permanganates).
- **Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide when burned.
- **Conditions to Avoid:** Moisture and high temperature.

11. Toxicological Information

- **Toxicity:** Non-toxic food grade product.
- **Irritation:** May cause minor mechanical irritation to eyes and respiratory tract.
- **Sensitization:** Not known to cause allergic reactions.
- **Mutagenicity / Carcinogenicity:** Not classified as carcinogenic (IARC, OSHA, NTP).

12. Ecological Information

- **Ecotoxicity:** Not toxic to aquatic or terrestrial life.
- **Biodegradability:** Not biodegradable but environmentally inert.
- **Bioaccumulation:** Not expected.
- **Mobility:** Insoluble in water; settles easily.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Can be disposed of as non-hazardous solid waste.
- Do not dispose into drains or water bodies.

14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous material)

UN Proper Shipping Name: Coconut Shell Charcoal Powder (Food Grade)

Transport Hazard Class: Not regulated as hazardous for transport.

Packing Group: Not assigned

Label Required: None (non-dangerous goods)

Transportation Mode Details:

- **By Road (ADR/RID):** Not classified as dangerous goods.
 - Ensure containers are closed and secured to prevent spillage.
- **By Air (IATA):** Not classified as dangerous goods.
 - Avoid contamination with oxidizing agents during air freight.
- **By Sea (IMDG):** Not classified as marine pollutant.
 - Store away from heat sources or oxidizers.
- **By Rail:** Transport in sealed bags or drums to prevent dust emission.

Additional Precautions:

- Prevent formation of dust clouds during loading/unloading.
- Avoid transporting with oxidizing or flammable materials.
- Ensure packaging is dry, sealed, and properly labeled as “Food Grade Charcoal Powder – Non-Hazardous”.

15. Regulatory Information

- **Regulation Compliance:** Complies with FSSAI and Food Grade Charcoal standards.
- **OSHA / EU Classification:** Non-hazardous.
- **WHMIS (Canada):** Not controlled product.
- **REACH Status:** Exempt (natural material).

16. Other Information

Disclaimer:

The information provided in this MSDS is believed to be accurate and reliable as of the revision date. However, no warranty or guarantee, express or implied, is made regarding its accuracy or completeness. The user assumes all responsibility for handling, storage, and use of the material in compliance with applicable laws and regulations.

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- MSDS are based on the manufacturer's provided information.