Pelletized Activated Carbon Safety Data Sheet (SDS) — Full English Translation

Section 1: Identification

Product Type: Pelletized Activated Carbon
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, China

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture (GHS-US)

- Pictogram(s): —
- Signal Word: Warning
- Hazard Statements:

○ Eye Irrit. 2B, H320
○ Acute Tox. (Oral) 4, H302
○ STOT SE (Respiratory irritation), H335

2.2 Precautionary Statements (GHS-US)

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash thoroughly after handling (affected body parts/contact areas).
- P271: Use only outdoors or in a well-ventilated area.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER/doctor if you feel unwell.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

- No additional information available.

2.4 Unknown Acute Toxicity

- No data available.

Section 3: Composition/Information on Ingredients

Component	Identifier	Weight Percentage (%)
Carbon	CAS 7440-44-0	≈ 93
Magnesium Oxide	CAS 1309-48-4	≈ 7

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Section 4: First-Aid Measures

4.1 Description of First Aid Measures

- Inhalation: Move to fresh air. If not breathing, administer CPR or artificial respiration. Seek medical attention immediately.
- Skin Contact: If skin reddening or irritation occurs, seek medical attention.
- Eye Contact: Rinse cautiously with plenty of water for at least 15 minutes; if irritation persists, seek medical attention.
- Ingestion: If swallowed, rinse mouth thoroughly. Do not induce vomiting unless directed by medical personnel. If large amounts have been ingested, seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Inhalation: May cause respiratory irritation.
- Skin Contact: May cause skin irritation.
- Eye Contact: May cause eye irritation.
- Ingestion: Harmful if swallowed.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- No additional information available.

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media

- Use extinguishing media appropriate for surrounding fire.

5.2 Specific Hazards Arising from the Chemical

- Fire Hazard: Unknown.
- Explosion Hazard: Unknown.

5.3 Special Protective Equipment and Precautions for Fire-Fighters

- Firefighters should wear full protective gear (chemical protective clothing and respiratory protection).

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- General Measures: Avoid contact with skin and eyes.
- For Non-Emergency Personnel: No additional information.
- For Emergency Responders: No additional information.

6.2 Environmental Precautions

- None.

6.3 Methods and Materials for Containment and Cleaning Up

- Containment: If possible, stop the product from continuing to spill/release.
- Cleaning: Shovel or sweep up and place in a closed container for disposal.

6.4 Reference to Other Sections

- Wet activated carbon can deplete oxygen from the air and may create hazardous low-oxygen conditions. Before entering containers holding activated carbon, measure oxygen concentration and follow procedures for working in potentially oxygen-deficient spaces.
- Spent or exhausted activated carbon may contain contaminants and must be managed according to national laws or local permitting requirements. Risk management measures are required when handling these materials.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

- Avoid generating dust.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

- Storage Conditions: Prevent physical damage to containers. Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Prevent contact with contaminated water and gases.

7.3 Specific End Use(s)

- No additional information.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- No additional information.

8.2 Exposure Controls

- Engineering Controls: Provide local exhaust and general ventilation sufficient to meet exposure standards.
- Hand Protection: Use impermeable gloves to minimize skin contact.
- Eye Protection: Safety glasses.
- Skin and Body Protection: Wear suitable work clothing.
- Respiratory Protection: If airborne concentrations exceed applicable occupational exposure limits, use a NIOSH-approved respirator.

Section 9: Physical and Chemical Properties

- Physical State: Solid
- Appearance: Pelletized granules
- Color: Black
- Odor: No data
- Odor Threshold: No data
- pH: 11–12
- Relative Evaporation Rate (butyl acetate = 1): No data
- Melting Point: No data
- Freezing Point: No data
- Boiling Point: > 1,000° C
- Flash Point: > 1,000° C
- Auto-ignition Temperature: 350–450° C
- Decomposition Temperature: No data
- Flammability (solid, gas): No data
- Vapor Pressure: No data
- Relative Vapor Density at 20° C: No data
- Bulk Density: 29–31 lb/ft³
- Solubility: No data
- Log Pow: No data
- Log Kow: No data
- Kinematic Viscosity: No data
- Dynamic Viscosity: No data
- Explosive Properties: No data
- Oxidizing Properties: No data
- Explosive Limits: No data

Section 10: Stability and Reactivity

10.1 Reactivity
- Non-reactive under recommended storage, transport, and use conditions.

10.2 Chemical Stability
- Stable under normal conditions.

10.3 Possibility of Hazardous Reactions
- Contact with strong oxidizers (e.g., chlorine, liquid oxygen, permanganates, ozone) may cause rapid combustion and possible explosion.

10.4 Conditions to Avoid
- None.

10.5 Incompatible Materials
- Keep away from strong oxidizers and strong acids.

10.6 Hazardous Decomposition Products
- Carbon monoxide may be generated in case of fire.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects
- Acute Toxicity: Not classified.
- Carbon (CAS 7440-44-0): Oral LD50 (rat) > 1000 mg/kg.
- Germ Cell Mutagenicity: Not classified.
- Carcinogenicity: Not classified.

○ Zeolite (CAS 1318-02-1): IARC Group 3 (not classifiable).
- Reproductive Toxicity: Not classified.
- STOT—Single Exposure: May cause respiratory irritation.
- STOT—Repeated Exposure: Not classified.
- Aspiration Hazard: Not classified.

Section 12: Ecological Information

- Toxicity: No additional information.
- Persistence and Degradability: No additional information.
- Bioaccumulative Potential: No additional information.
- Mobility in Soil: No additional information.
- Other Adverse Effects: No additional information.

Section 13: Disposal Considerations

- Disposal Recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport Information

- In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA.
- UN Number: Not applicable.
- Proper Shipping Name: Not applicable.

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Section 15: Regulatory Information

- All components of this product are listed on or exempted from the U.S. EPA TSCA inventory.

15.1 U.S. Federal Regulations

- OSHA: This product is not considered hazardous under OSHA Process Safety Management Standard 29 CFR 1910.119.
- CERCLA/SARA Hazardous Substances: Not applicable.

15.2 U.S. State Regulations

- Refer to specific state regulations.

Section 16: Other Information

- Full text of H-statements:
  - Eye Irrit. 2B: Serious eye damage/eye irritation, Category 2B.
  - STOT SE 3: Specific target organ toxicity—single exposure, Category 3.
  - H335: May cause respiratory irritation.
- NFPA Ratings:
  - Health: 1 (Exposure could cause irritation with only minor residual injury even if no treatment is given)
  - Fire: 0 (Non-flammable)
  - Reactivity: 0 (Normally stable, even under fire exposure conditions, and not reactive with water)

Disclaimer

- The information contained herein is believed to be accurate and reliable; however, no express or implied warranties or guarantees are made. Users should conduct their own tests to determine the suitability of the product for their intended use. Henan CarbonFresh Activated Carbon Co., Ltd.assumes no responsibility for any loss, damage, or injury resulting from the use of this product or reliance upon this data sheet.