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Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier
Product name: MERSORB
1.2 Relevant identified uses of the substance or mixture and uses advised against
(Not provided)
1.3 Details of the supplier of the safety data sheet
Henan CarbonFresh Activated Carbon Co., Ltd.
Website: https://www.carbonfreshcn.com/
Email: info@carbonfreshcn.com
Phone: (+86) 155-3801-7198
Address: Enterprise Headquarters Base, Innovation Park, High-tech Zone, Zhengzhou, Henan, China

Section 2: Hazards Identification

2.1 Classification of the substance or mixture (GHS-US)
Skin Irritation Category 2; H315
Note: Full text of H-phrases is provided in Section 16.
2.2 Label elements (GHS-US)
Pictogram: GHS07 (exclamation mark)
Signal word: Warning
Hazard statement: H315 — Causes skin irritation
Precautionary statements:
P264 — Wash hands thoroughly after handling
P280 — Wear personal protective equipment
P302+P352 — IF ON SKIN: Wash with plenty of water
P332+P313 — If skin irritation occurs: Get medical advice/attention
P362+P364 — Take off contaminated clothing and wash it before reuse
2.3 Other hazards
None under normal conditions. May form combustible dust concentrations in air.
2.4 Unknown acute toxicity (GHS US)
Not applicable

Section 3: Composition/Information on Ingredients

3.1 Substance
Not applicable
3.2 Mixture
Components and classification:
oCarbon, CAS 7440-44-0, 90–95%, Not classified
oSulfur, CAS 7704-34-9, ≥10%, Skin Irrit. Category 2, H315
Note: Full text of H-phrases is provided in Section 16.

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Section 4: First Aid Measures

4.1 Description of first aid measures
General: Contact a poison control center or physician.
Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing. If feeling unwell, contact a poison control center or physician.
Skin contact: If skin irritation persists, consult a physician. If on skin, rinse thoroughly with water. If clothing is contaminated, remove immediately. Wash contaminated clothing before reuse.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Rinse mouth. Do not induce vomiting. Contact a physician immediately.
4.2 Most important symptoms and effects, both acute and delayed
Inhalation: May irritate the respiratory tract, sneezing, coughing, burning sensation in the throat, with a feeling of laryngeal constriction and difficulty breathing.
Skin contact: May cause severe skin irritation, redness, dermatitis.
Eye contact: Causes serious eye irritation.
4.3 Indication of any immediate medical attention and special treatment needed
No additional information available.

Section 5: Firefighting Measures

5.1 Extinguishing media
Suitable extinguishing media: Dry chemical, water mist, foam.
5.2 Special hazards arising from the substance or mixture
Explosion hazard: Avoid dispersing fine material to form airborne dust; prevent dust explosion hazards.
5.3 Advice for firefighters
Firefighting instructions: Evacuate area. If safe to do so, eliminate all ignition sources. Exercise caution when fighting any chemical fire.
Protection during firefighting: Do not undertake emergency response without proper protective equipment.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
General measures: May form combustible dust concentrations in air. Contained sulfur may generate toxic sulfur dioxide, which irritates the respiratory tract.
For non-emergency personnel: No additional information available.
For emergency responders:
Protective equipment: Avoid inhalation of dust.
Emergency procedures: Stop the leak.
6.2 Environmental precautions
Avoid release to the environment.
6.3 Methods and materials for containment and cleaning up
Clean-up methods: On land, sweep or shovel into suitable containers. Eliminate ignition sources. Rinse spill area with water mist.
6.4 Reference to other sections
No additional information available.

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Section 7: Handling and Storage

7.1 Precautions for safe handling

Additional hazards during processing: Avoid dust formation. Do not inhale dust.

Precautions for safe handling: No open flames. No smoking. Use only outdoors or in a well-ventilated area. Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Avoid exposure during pregnancy/breastfeeding. Use personal protective equipment as required. Use only non-sparking tools. Eliminate all possible sources of ignition.

Hygiene measures: Provide easily accessible eye-wash stations and safety showers. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be taken out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Store only in original container, in a cool, well-ventilated place away from moisture.

Incompatible materials: Oxidizers.

Storage area: Store in a well-ventilated place.

Special packaging rules: Store in tightly closed containers.

7.3 Specific end use(s)

No additional information available.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Mersorb (7704-34-9)

ACGIH: Not applicable

OSHA: Not applicable

DNEL: ≈ (no specific value provided)

Carbon (7440-44-0)

ACGIH: Not applicable

OSHA: Not applicable

Sulfur (7704-34-9)

ACGIH: Not applicable

OSHA: Not applicable

8.2 Exposure controls

Personal protective equipment: Wash hands thoroughly after handling.

Eye protection: Chemical safety goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear respiratory protection if ventilation is inadequate. If inhalation exposure may occur during use, respiratory protection is recommended.

Consumer exposure control: Avoid exposure during pregnancy/breastfeeding.

Other information: Do not inhale dust. Do not eat, drink, or smoke when using this product.

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Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Solid

Appearance: Granules; pellets/tablets; powder

Color: Black to dark gray

Odor: Odorless

Odor threshold: No data available

pH: No data available

Relative evaporation rate (butyl acetate = 1): No data available

Melting point: 3550 °C

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Auto-ignition temperature: 350 °C

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: No data available

Bulk density: 400–600 g/L

Solubility: Insoluble in water

Log Pow: No data available

Log Kow: No data available

Kinematic viscosity: No data available

Dynamic viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: No data available

9.2 Other information

VOC content: 10% by volume

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Section 10: Stability and Reactivity

10.1 Reactivity
No additional information available.
10.2 Chemical stability
Stable under normal conditions.
10.3 Possibility of hazardous reactions
No additional information available.
10.4 Conditions to avoid
Moisture. Avoid dust formation.
10.5 Incompatible materials
Strong oxidizers, fluorine, peroxides, oxygen.
10.6 Hazardous decomposition products
Carbon monoxide, carbon dioxide.

Section 11: Toxicological Information

11.1 Information on toxicological effects
Acute toxicity: Not classified
Carbon (7440-44-0)
Oral LD50, rat: > 10,000 mg/kg
Sulfur (7704-34-9)
Oral LD50, rat: > 3000 mg/kg
Dermal LD50, rabbit: > 2000 mg/kg
Inhalation LC50, rat (mg/L): > 9.23 mg/L/4h
Skin corrosion/irritation: Causes skin irritation
Serious eye damage/eye irritation: Not classified
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT—single exposure: Not classified
STOT—repeated exposure: Not classified
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: Harmful if swallowed. Harmful if inhaled.
Inhalation symptoms: May cause respiratory tract irritation, sneezing, coughing, burning sensation in the throat, with a feeling of laryngeal constriction and difficulty breathing.
Skin contact symptoms: Severe skin irritation, redness, dermatitis.
Eye contact symptoms: Causes serious eye irritation.

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Section 12: Ecological Information

12.1 Toxicity
Aquatic environment: Harmful to aquatic life; toxic; may cause long-lasting adverse effects to aquatic life; long-term hazard to aquatic life; very toxic to aquatic life with long lasting effects. (Original text contains multiple phrasings; summarized as above)
Sulfur (7704-34-9)
Fish LC50 (1): 866 mg/L (96 h, Danio rerio, static)
Fish LC50 (2): < 14 mg/L (96 h, Lepomis macrochirus, static)
12.2 Persistence and degradability
Carbon (7440-44-0): Not established
Sulfur (7704-34-9): Not established
12.3 Bioaccumulative potential
Carbon (7440-44-0): Not established
Sulfur (7704-34-9): Not established
12.4 Mobility in soil
No additional information available.
12.5 Other adverse effects
Ozone layer effects: —
Global warming potential: No known ecological damage

Section 13: Disposal Considerations

13.1 Waste treatment methods
Waste disposal recommendations: Dispose of contents/container in accordance with all regulations.

Section 14: Transport Information

According to U.S. DOT: Not evaluated

Other information: No supplementary information available.

ADR: No additional information available

Sea transport: No additional information available

Air transport: No additional information available

Section 15: Regulatory Information

15.1 US Federal regulations
Carbon (7440-44-0): Listed on the U.S. TSCA (Toxic Substances Control Act) Inventory
Sulfur (7704-34-9): Listed on the U.S. TSCA Inventory

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15.2 International regulationsCanada

•Carbon (7440-44-0): Listed on the Canadian DSL (Domestic Substances List); WHMIS classification: Uncontrolled product
•Sulfur (7704-34-9): Listed on the Canadian DSL; WHMIS classification: Class B, Division 4 — Flammable solid
•European Union (EU) regulations
•Carbon (7440-44-0): Listed on EINECS (European Inventory of Existing Commercial Chemical Substances)
•Sulfur (7704-34-9): Listed on EINECS
•Classification according to Regulation (EC) No.1272/2008 [CLP]
•Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]: Not classified
•15.2.2 National regulations
•Carbon (7440-44-0): Listed on AICS (Australia), IECSC (China), Korea ECL, NZIoC (New Zealand), PICCS (Philippines), INSQ (Mexico), Turkey chemical inventory
•Sulfur (7704-34-9): Listed on AICS, IECSC, Korea ECL, NZIoC, PICCS, INSQ, Turkey chemical inventory
•15.3 US State regulations
•Sulfur (7704-34-9):
•Massachusetts — Right to Know List
•New Jersey — Hazardous Substance Right to Know List
•Pennsylvania — Right to Know List

Section 16: Other Information

Full text of H-phrases:
Skin Irrit. 2: Skin corrosion/irritation Category 2
H315: Causes skin irritation
GHS US SDS
Disclaimer: The information in this Safety Data Sheet is based on our best knowledge and current regulations at the time of preparation. It is provided to offer guidance on the health, safety, and environmental aspects of the product and does not constitute a guarantee of technical performance or fitness for a particular purpose. As specific conditions of use are beyond the supplier's control, the user is responsible for ensuring safe use of the product and compliance with applicable laws and regulations.