Safety Data Sheet (MSDS) — AMMOSORB (Impregnated Activated Carbon)

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Company: 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

Identification of the substance/mixture and of the company/undertaking

Product name

Product name: AMMOSORB (Impregnated Activated Carbon)

Relevant identified uses of the substance or mixture and uses advised against

(Not specifically listed in the original.)

Hazard identification

Classification of the substance or mixture (GHS-US)

Not classified

Label elements (GHS-US)

No labeling required

Other hazards

None under normal conditions. Potential risk of dust explosion.

Unknown acute toxicity (GHS US)

Not applicable

Composition/information on ingredients

Substances

Not applicable

Classification of the substance or mixture (GHS-US)

Phosphoric acid
CAS: 7664-38-2
Content: 5–15%
Classification: Acute Tox. 4 (Oral), H302; Skin Corr. 1A, H314

Carbon
CAS: 7440-44-0
Classification: Not classified

Note: Full text of H-statements in Section 16.

First-aid measures

Description of first-aid measures

General measures: Contact a poison control center or physician.

Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, contact a poison control center or physician.

Skin contact: If skin irritation persists, consult a physician; rinse contaminated skin thoroughly with water. Remove contaminated clothing and wash 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. Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed

Inhalation: May irritate the respiratory tract; sneezing, coughing, burning sensation in throat, laryngeal tightness, and dyspnea.

Skin: Mild irritation.

Eyes: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

No additional information available.

Firefighting measures

Extinguishing media

Suitable media: Dry powder, water spray, foam.

Special hazards arising from the substance or mixture

Explosion hazard: Avoid dispersing powder into air to prevent formation of explosive dust clouds.

Advice for firefighters

Firefighting instructions: Evacuate the area; if safe to do so, eliminate all ignition sources; exercise caution when fighting any chemical fire.

Protective equipment for firefighters: Do not intervene without suitable protective equipment.

Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: May form combustible dust concentrations in air.

For non-emergency personnel: Wear appropriate respiratory protection if ventilation is inadequate; wear goggles and gloves.

For emergency responders: Avoid inhalation of dust.

Emergency procedures: Stop the leak.

Environmental precautions

Avoid release to the environment.

Methods and materials for containment and cleaning up

Clean-up methods: Sweep or shovel spilled material into suitable containers; rinse spill area with water spray.

Reference to other sections

No additional information.

Handling and storage

Precautions for safe handling

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

Advice on safe handling: No open flames or smoking; use only outdoors or in well-ventilated areas; avoid contact with eyes, skin and clothing; avoid breathing dust; avoid exposure during pregnancy/breastfeeding; use personal protective equipment as required.

Hygiene measures: Do not eat, drink or smoke when using this product; wash thoroughly after handling; wash contaminated clothing before reuse; do not take contaminated work clothing home.

Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.
Storage conditions: Store in a well-ventilated place; keep container tightly closed.
Incompatible materials: Oxidizing agents.
Storage area: Well-ventilated place.
Specific provisions for packaging: Store in tightly closed containers.

Specific end use(s)

No information available.

Exposure controls/personal protection

Control parameters

AMMOSORB (Impregnated Activated Carbon) (related to 7664-38-2)
ACGIH TWA: 1 mg/m³
ACGIH STEL: 3 mg/m³
ACGIH notes: Upper respiratory tract, eye and skin irritation
OSHA PEL (TWA): 1 mg/m³
Carbon (7440-44-0)
ACGIH/OSHA: Not applicable

Phosphoric acid (7664-38-2)
ACGIH TWA: 1 mg/m³
ACGIH STEL: 3 mg/m³
OSHA PEL (TWA): 1 mg/m³

Exposure controls

Personal protective equipment: Wash hands thoroughly after handling.
Eye protection: Chemical goggles or face shield.
Body protection: Wear suitable protective clothing.
Respiratory protection: Wear respiratory protection if ventilation is inadequate; if inhalation exposure may occur during use, a respirator is recommended.
Consumer exposure control: Avoid exposure during pregnancy/breastfeeding.
Other information: Avoid breathing dust; do not eat, drink or smoke when using this product.

Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Solid
Appearance: Granular
Color: Black to dark gray
Odor: Odorless
Odor threshold: No data
pH: 2–3
Relative evaporation rate (butyl acetate = 1): No data
Melting point: 3550 °C
Freezing point: No data
Boiling point: No data
Flash point: No data
Auto-ignition temperature: 350 °C
Decomposition temperature: No data
Flammability (solid, gas): No data
Vapor pressure: No data
Relative vapor density at 20 °C: No data
Relative density: No data
Bulk density: 400–600 g/L
Solubility: Insoluble in water
oWater solubility of mixture component: phosphoric acid 750–850 g/L (20 °C)
Log Pow: No data
Log Kow: No data
Kinematic/dynamic viscosity: No data
Explosive properties: No data

Oxidizing properties: No data
Explosive limits: No data

Other information

VOC content: < 1%

Stability and reactivity

Reactivity

No additional information.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No additional information.

Conditions to avoid

Moisture; avoid dust generation

Incompatible materials

Strong oxidizers; fluorine.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, phosphorus oxides.

Toxicological information

Information on toxicological effects

Acute toxicity: Not classified

Carbon (7440-44-0)

Oral LD50, rat: > 10,000 mg/kg

Phosphoric acid (7664-38-2)

Oral LD50, rat: 1530 mg/kg

Dermal LD50, rabbit: 2740 mg/kg

Inhalation LC50, rat: > 850 mg/m³ (1 hour)

ATE (US, oral): 1530 mg/kg bw

ATE (US, dermal): 2740 mg/kg bw

Skin corrosion/irritation: Not classified (pH 2–3)

Serious eye damage/irritation: Not classified (pH 2–3)

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

Eye symptoms: Causes serious eye irritation.

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 irritate the respiratory tract; sneezing, coughing, burning sensation in throat, laryngeal tightness, and dyspnea.
Skin symptoms: Mild irritation.

Ecological information

Toxicity

Aquatic environmental statements: Harmful/toxic to aquatic organisms; may cause long-term adverse effects to aquatic life; may also have long-term harmful/toxic/very toxic effects. (Original lists multiple template statements.)

Persistence and degradability

Carbon (7440-44-0): Data not established.

Bioaccumulative potential

Carbon (7440-44-0): Data not established.

Mobility in soil

No additional information.

Other adverse effectsl

Effects on the ozone layer:

Global warming potential: No known environmental damage.

Disposal considerations

Waste treatment methods

Disposal recommendations: Dispose of contents/container in accordance with all regulatory requirements.

Transport information

According to US DOT: Not evaluated
Other information: No supplementary information
ADR: No additional information
Sea transport: No additional information
Air transport: No additional information

Regulatory information

US federal regulations

Carbon (7440-44-0): Listed on TSCA
Phosphoric acid (7664-38-2): Listed on TSCA

International regulations

Canada
Carbon (7440-44-0): Listed on DSL; WHMIS classification: Uncontrolled product
Phosphoric acid (7664-38-2): Listed on DSL; WHMIS classification: Class E (Corrosive material)
European Union
Carbon (7440-44-0): Listed on EINECS
Phosphoric acid (7664-38-2): Listed on EINECS
Classification according to Regulation (EC) No. 1272/2008 [CLP] and Directive 67/548/EEC (DSD)/1999/45/EC (DPD): Not classified
National regulations (examples)
Carbon (7440-44-0): Listed on Australia AICS, China IECSC, Korea ECL, New Zealand NZIoC, Philippines PICCS, Mexico INSQ, Turkey chemical inventory, etc.
Phosphoric acid (7664-38-2): Listed on Australia AICS, China IECSC, Japan ENCS, Korea ECL, New Zealand NZIoC, Philippines PICCS, Canada IDL, Mexico INSQ, Turkey chemical inventory, etc.

US state regulations

Phosphoric acid (7664-38-2): Listed on Massachusetts Right-to-Know; New Jersey Hazardous Substance Right-to-Know; Pennsylvania RTK and environmental hazard lists.

Other information

Full text of H statements

Acute Tox. 4 (Oral): Acute toxicity (oral), category 4
Skin Corr. 1A: Skin corrosion/irritation, category 1A
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage

Disclaimer: The information herein is based on current knowledge and is intended to describe the product in terms of health, safety and environmental requirements only, and does not constitute a guarantee of any specific product properties.