

Section 1. Product Identification: Activated Carbon

Part Nos.: 99000, 99150

Section 2. Hazards Identification

Emergency Overview: Odorless black powder. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. When workers enter a vessel containing activated carbon, procedures for potentially low oxygen areas should be followed. Workers should also take appropriate precautions when dealing with spent (used) activated carbons, which may exhibit properties of adsorbed materials. This material may be self-heating under certain conditions. See Section 16

Potential Health Effects: Medical conditions aggravated by exposure: None documented.

Routes of Exposure:

Eyes: Not corrosive, but like most particulate materials, may cause mild physical irritation.

Skin: Not corrosive and not a primary skin irritant. Mild irritation is possible due to abrasive action of dust.

Ingestion: No known deleterious effects.

Inhalation: Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.

Chronic Effects: IARC: Not listed NTP: Not listed OSHA: Not regulated

Section 3. Composition / Information on Ingredients

Ingredient	CAS No.	%
Activated Carbon	7440-44-0	100

Section 4. First Aid Measures

Skin: Wash material off skin with soap and water. Seek medical attention if irritation occurs.

Eyes: Flush with copious amounts of water. Seek medical attention if irritation occurs.

Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.

Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

Section 5. Fire Fighting Measures

Flash Point: Not applicable

Non-flammable: OSHA Method 16CFR1500.44 (Incorporated by reference in 29CFR1920.1200).

Self-heating substance: May self heat. UN Manual of Tests and Criteria, Test N.3.

Flammability Limits in Air: LFL and UFL Not Applicable.

General Hazard: Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Toxic gas may form upon combustion. Chemically activated carbons can self-heat under certain conditions.

Fire Fighting Instructions: If possible to do safely, move smoldering activated carbon to a non-hazardous area, preferably out of doors. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

Hazardous Combustion Products: Products may include smoke and oxides of carbon (for example, carbon monoxide). Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide, which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Under certain conditions, any airborne dust be an explosion hazard. Used activated carbon may produce additional combustion products.

Section 6. Accidental Release Measures

If a Spill or Leak Occurs: Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing.

Disposal Method: Dispose of virgin (unused) carbon (waste or spillage) in a facility for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with State and Federal laws.

Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

Section 7. Handling and Storage

Handling: Avoid prolonged contact with eyes and skin. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling.

Storage: Store in cool, dry, ventilated area and in closed containers. Keep away from oxidizers, heat or flames. Store away from ignition sources.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Use local exhaust to control emissions near the source. Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing 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 with engineering and administrative controls. Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use imitations specified by NIOSH/MSHA or the manufacturer.

Airborne Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS
Activated Carbon	5 mg/M3 respirable fraction	5 mg/M3 respirable fraction	

PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

Section 9. Physical and Chemical Properties

Physical State: Solid

Appearance and odor: Black powder with no odor

pH: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Negligible

Freezing Point: Not applicable

Volatiles %: Not applicable

Specific Gravity: 0.4 to 0.7

Solubility: Insoluble in water

Molecular Formula: C

Molecular weight: 12

Section 10. Stability and Reactivity

Stability: This product is stable under the specified conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight.

Incompatibility: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact the strong acid.

Hazardous Decomposition Products: Oxides of carbon

Hazardous Polymerization: Does not occur.

Section 11. Toxicological Information

This product is non-toxic. Used activated carbon may exhibit characteristics of the absorbed material.
LD50/LC50: Not determined on the finished product.

Carcinogenicity: CAS# 7440-44-0: IARC: Not listed NTP: Not listed OSHA: Not regulated

Target Organs or System: Eyes, skin and upper respiratory system.

Signs and Symptoms of Exposure: Irritation and redness of eyes, irritation of skin and respiratory system may result from exposure to carbon dust.

Section 12. Ecological Information

This material, in its original state, is not harmful to the environment. Used activated carbon may exhibit characteristics of the absorbed material.

Ecotoxicity: Not determined on the finished product

Persistence/ Degradability: Not determined on the finished product

Bioaccumulation/Accumulation: Not determined on the finished product

Mobility in Environmental Media: Not determined on the finished product

Section 13. Disposal Considerations

In its original state, this product is not a hazardous material or hazardous waste. Vacuum or shovel material into a closed container for reuse or disposal. Storage and disposal should be in accordance with applicable local state and federal laws and regulations. Local regulations may be more stringent than state or federal requirements.

RCRA P-Series: None listed

RCRA U-Series: None listed

Section 14. Transport Information

Activated Carbon UN 1362

Land: US DOT: Not regulated

Canada TDG: Not regulated

Water: IMO/IMDG: Not regulated

Air: IACO/IATA: Not regulated

Section 15. Regulatory Information

US Federal

TSCA: CAS# 7440-44-0 is listed on the TSCA inventory

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA Codes: CAS# 7440-44-0: Immediate.

SARA Section 313: No chemicals in this product are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

States

CAS# 7440-44-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65: California No Significant Risk Level: None of the chemicals in this product are listed.

Canadian Classification

WHMIS: Product not listed.

DSL #: Product not listed

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: R36: Irritating to the eyes,
R37: Irritating to the respiratory system,
R38: Irritating to the skin,

Section 16. Additional Information

Intended Use: This material is generally used for treatment of gases and liquid.

HMIS Rating (USA):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E (safety glasses, gloves, dust respirator)

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