





SAFETY DATA SHEET

Creation Date: 2-25-21

Revision Date: 2-25-21

SDS-7, Revision Number: 1

1	Identification	<p>a) Product identifier used on the label: HF-005, HR-050, XF-005</p> <p>b) Other means of identification: Activated Carbon, Activated Charcoal</p> <p>c) Recommended use of the chemical and restrictions on use: Air Purification</p> <p>d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Bascom-Turner Instruments, Inc., 111 Downey Street, Norwood, MA 02062.</p> <p>e) Emergency telephone number: 781-769-9660</p>										
2	Hazard(s) identification	<p>a) Classification of the chemical in accordance with paragraph (d) of §1910.1200:</p> <div style="display: flex; align-items: center;">  <div> <p>Irritant Eye irritation, category 2A Specific target organ toxicity following single exposure, category 3</p> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;">  <div> <p>Flammable Flammable solids, category 1</p> </div> </div> <p>b) Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200.:</p> <p>Signal Word: WARNING</p> <p>Hazard Statements:</p> <p>H320- Causes eye irritation</p> <p>H335- May cause respiratory irritation</p> <p>Precautionary Statements:</p> <p>P261- Avoid breathing dust</p> <p>P264- Wash thoroughly after handling</p> <p>P271- Use in well-ventilated area</p> <p>P280- Wear protective gloves/clothing/eye & face protect</p> <p>P304&340: IF INHALED: Remove person to fresh air</p> <p>P305&351&P338: If in eyes, Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.</p> <p>P312- Call Poison Control Center/Doctor if you feel sick</p> <p>P403& P233- Store in well-ventilated place. Keep container tightly closed</p> <p>P405- Store locked up</p> <p>P501- Dispose of container to appropriate receptacle</p> <p>c) Describe any hazards not otherwise classified that have been identified during the classification process: No additional Information Available</p> <p>d) Unknown acute toxicity: No additional Information Available</p>										
3	Composition/ information on ingredients	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Hazardous Ingredients</th> <th style="width: 15%;">Approximate Concentration %</th> <th style="width: 15%;">C.A.S. N.A. or U.N. Numbers</th> <th style="width: 20%;">“Exposure limits”</th> <th style="width: 30%;">LD50/LC50 Specify Species and Route</th> </tr> </thead> <tbody> <tr> <td>Carbon (Activated Carbon, Activated Charcoal)</td> <td>100%</td> <td>7440-44-0</td> <td>OSHA PEL 5mg m-3 as respirable dust ACGIH TLV 10mg m-3 as total dust</td> <td>LD50 >10 gr/kg Rat Oral LC50 >64.4 mg/L Rat Inhalation</td> </tr> </tbody> </table>	Hazardous Ingredients	Approximate Concentration %	C.A.S. N.A. or U.N. Numbers	“Exposure limits”	LD50/LC50 Specify Species and Route	Carbon (Activated Carbon, Activated Charcoal)	100%	7440-44-0	OSHA PEL 5mg m-3 as respirable dust ACGIH TLV 10mg m-3 as total dust	LD50 >10 gr/kg Rat Oral LC50 >64.4 mg/L Rat Inhalation
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4	First aid measures	<p>a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion: <u>Inhalation</u>: Remove person to fresh air. If not breathing, administer CPR. Seek medical attention. <u>Skin Contact</u>: If skin reddening or irritation develops, seek medical attention. <u>Eye Contact</u>: Immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention. <u>Ingestion</u>: If ingested, seek immediate medical attention or advice. <u>General Advice</u>: Wash hands before eating. Wash contaminated clothing.</p> <p>b) Most important symptoms/effects, acute and delayed. <u>Inhalation</u>: May cause respiratory irritation. <u>Skin Contact</u>: May cause skin irritation. <u>Eye Contact</u>: Causes serious eye damage. <u>Ingestion</u>: May be harmful if swallowed.</p> <p>c) Indication of immediate medical attention and special treatment needed, if necessary: No additional information is available.</p>
5	Fire-fighting measures	<p>a) Suitable (and unsuitable) extinguishing media: In case of fire, any common extinguishing media may be used including water.</p> <p>b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): Produces carbon monoxide and carbon dioxide during combustion.</p> <p>c) Special protective equipment and precautions for fire-fighters: Use full protective gear.</p>
6	Accidental release measures	<p>a) Personal precautions, protective equipment, and emergency procedures: Avoid contact with skin and eyes.</p> <p>b) Methods and materials for containment and cleaning up: Sweep up as much as possible. Place in closed container for disposal. Avoid forming dust cloud.</p>
7	Handling and storage	<p>a) Precautions for safe handling: Avoid creating dust and avoid breathing dust. Avoid contact with eyes. Dust may present a fire or explosion hazard. Wet activated carbon removes oxygen from air causing severe hazard to workers inside confined spaces.</p> <p>b) Conditions for safe storage, including any incompatibilities: Store in a closed container in a cool dry area. Store away from oxidizers and ignition sources.</p>
8	Exposure controls/personal protection	<p>a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available: OSHA PEL: 5mg/m³ (as respirable dust) ACGIH TLV 10mg/m³ (as respirable dust)</p> <p>b) Appropriate engineering controls: Use general or local mechanical exhaust ventilation to control dust and to meet TLV requirements.</p> <p>c) Individual protection measures, such as personal protective equipment: Wear safety glasses and gloves when handling product. If airborne concentrations are above applicable exposure limits, use NIOSH approved respiratory protection.</p>

9	Physical and chemical properties	<ul style="list-style-type: none"> a) Appearance (physical state, color, etc.): Black pellets and dust b) Odor: odorless c) Odor threshold: N/A d) pH: Not determined. e) Melting point/freezing point: 3652°C (sublimes) f) Initial boiling point and boiling range: 4200°C g) Flash point: N/A h) Evaporation rate: N/A i) Flammability (solid, gas): Yes, non-combustible under normal circumstances. j) Upper/lower flammability or explosive limits: N/A k) Vapor pressure: N/A l) Vapor density: N/A m) Relative density: 2.25 g/cc n) Solubility(ies): Insoluble in water o) Partition coefficient: n-octanol/water: N/A p) Auto-ignition temperature: >350°C q) Decomposition temperature: N/A r) Viscosity: N/A
10	Stability and reactivity	<ul style="list-style-type: none"> a) Reactivity: Reacts with strong oxidizers, such as ozone, liquid oxygen, chlorine, potassium permanganate, etc. Airborne dust may create an explosion. b) Chemical stability: Stable under normal conditions. c) Possibility of hazardous reactions: Reacts with strong oxidizers. d) Conditions to avoid (e.g., static discharge, shock, or vibration): None. e) Incompatible materials: Strong oxidizers, such as ozone, liquid oxygen, chlorine, potassium permanganate. f) Hazardous decomposition products: Hazardous decomposition products include carbon monoxide.
11	Toxicological information	<p>Description of the various toxicological (health) effects and the available data used to identify those effects:</p> <ul style="list-style-type: none"> a) Ingestion: LD₅₀ > 10g/kg Rat Oral Inhalation: LC₅₀ > 64.4 mg/L Rat Inhalation. b) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA: Not classified.
12	Ecological information (Non-mandatory)	<ul style="list-style-type: none"> a) Ecotoxicity (aquatic and terrestrial, where available): No additional Information available. b) Persistence and degradability: No additional Information available. c) Bioaccumulative potential: No additional Information available. d) Mobility in soil: No additional Information available. e) Other adverse effects (such as hazardous to the ozone layer): No additional Information available.
13	Disposal considerations (Non-mandatory)	<p>Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:</p> <p>Dispose of in accordance to all federal, state, and local regulations.</p>
14	Transport information (Non-mandatory)	<p>Not DOT regulated.</p> <ul style="list-style-type: none"> a) UN number: None b) UN proper shipping name: Activated Carbon c) Transport class(es): d) Packing group, if applicable; e) Environmental hazards (e.g., Marine pollutant (Yes/No)): None f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code); g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: None
15	Regulatory information (Non-mandatory)	<p>Safety, health and environmental regulations specific for the product in question:</p> <p>Activated carbon (CAS # 7440-44-0) is listed on the United States TSCA Inventory.</p> <p>US State Regulations: No additional information available.</p>

<p>16</p>	<p>Other information, including date of preparation or last revision</p>	<table> <tr> <td>Health</td> <td>1</td> <td rowspan="3"> </td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Physical Hazard</td> <td>0</td> </tr> </table> <p>The date of preparation of the SDS or the last change to it: 25 February 2021</p>	Health	1		Flammability	0	Physical Hazard	0
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