

MATERIAL SAFETY DATA SHEET

ULTRA-ACTIVATED CARBON

MSDS DATE: 6/23/2011

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ultra-Activated Carbon

MANUFACTURER: UltraTech International, Inc.

ADDRESS: 11542 Davis Creek Court
Jacksonville, FL 32256

EMERGENCY PHONE: 800-353-1611

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	WEIGHT %
Activated Carbon (Coconut Shell)	7440-44-0	90-100

This product is considered non-hazardous by the criteria specified in 29 CFR 1910.1200 (Hazard Communication).

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product is a black granular or powder material. May be irritating to eyes, skin and respiratory tract. High airborne dust concentrations may pose an explosion hazard. Wet activated carbon present in a confined space may produce an oxygen deficient atmosphere and presents a risk of asphyxiation to persons entering those areas.

POTENTIAL HEALTH EFFECTS

EYES: Contact may produce mechanical eye irritation.

SKIN: Skin irritation would not be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.

INGESTION: Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting and constipation. Small amounts of this product in solution, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death.

INHALATION: Overexposure to dusts may produce irritation of the respiratory system. Wet activated carbon may cause asphyxiation by adsorbing oxygen from confined spaces.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN: For skin contact, wash with soap and large amounts of water. If irritation persists, seek medical attention.

INGESTION: Use of this product for medicinal purposes should be conducted only by qualified medical personnel. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting unless instructed to do so by medical personnel.

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INHALATION: If symptoms are experienced, remove source of contamination or move victim to fresh air. Seek medical attention if irritation persists.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: This product in solution, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

SECTION 5: FIRE-FIGHTING MEASURES

GENERAL FIRE HAZARDS: Standard references cite the fact that activated carbon exposed to air is a potential fire hazard because of its very high surface area and absorptive capacity. However, manufacturers state there is low probability of ignition with steam-activated carbon. Accumulation of airborne dusts may present an explosion or fire hazard in the presence of an ignition source.

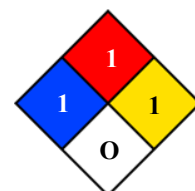
FLASH POINT: Not available

NFPA HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 1 **OTHER:** N/A

HMIS HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 1



PROTECTION: Safety glasses with side shields, impervious gloves for prolonged contact

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide, water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear full protective clothing including self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: Upon combustion, this product may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials adsorbed onto the carbon may also be released during combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Contain the discharged material. If sweeping of a contaminated area is necessary, use a dust suppressant agent.

CLEAN-UP PROCEDURES: Wear appropriate protective equipment and clothing during clean-up. Sweep up or vacuum spilled material. Use of a moist absorbent is recommended.

EVACUATION PROCEDURES: None necessary.

SPECIAL PROCEDURES: None

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SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid getting this material into contact with your eyes. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid the formation of airborne dusts. Use with adequate ventilation.

STORAGE: Keep the container tightly closed and in a cool, well-ventilated place. Store away from heat, ignition sources, combustible materials and incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation should be sufficient to effectively remove and prevent buildup of airborne dusts.

RESPIRATORY PROTECTION: If ventilation is not sufficient to effectively remove and prevent buildup of dusts, appropriate NIOSH/MSHA approved respiratory protection should be provided. Confined spaces containing wet activated carbon may be oxygen deficient atmospheres, use appropriate protective measures.

EYE PROTECTION: Wear safety glasses with side shields.

SKIN PROTECTION: Wear impervious gloves for prolonged contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black granules or powder

ODOR: Odorless

PHYSICAL STATE: Solid

pH AS SUPPLIED: Not applicable

BOILING POINT: Not applicable

MELTING POINT: 3500°C

FREEZING POINT: Not applicable

VAPOR PRESSURE (mmHg): Not applicable

VAPOR DENSITY (AIR = 1): Not applicable

SPECIFIC GRAVITY (H₂O = 1): 0.38-0.44 @ 25°C

SOLUBILITY IN WATER: Insoluble

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Avoid accumulation of airborne dusts. Dusts may be explosive when exposed to heat, flame, ignition sources, combustible material and incompatible materials.

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INCOMPATIBILITY (MATERIAL TO AVOID): Contact with incompatible materials may produce ignition or explosions. Incompatible with oxides, peroxides, oxosalts, potassium, nitric acid, sodium sulfide, halogens, oxygen, ozone, bromates, chlorates, iodates, and nitrates. Unsaturated oils (such as linseed oil) may be spontaneously flammable when distributed on activated carbon.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon decomposition, this product may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials adsorbed onto the carbon may also be released during decomposition.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

GENERAL PRODUCT INFORMATION: No data available for this product. Overexposure to activated carbon dusts would be expected to produce mild irritation to the respiratory tract, skin and eyes. Chronic skin exposure may discolor the hair follicle, chronic inhalation may produce carbon deposition in the lungs.

COMPONENT ANALYSIS: No LD50/LC50's are available for this product's components.

CARCINOGENICITY: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data available for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: No EPA Waste Numbers are applicable for this product's components. All wastes must be handled in accordance with local, state and federal regulations.

RCRA HAZARD CLASS: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

SECTION 14: TRANSPORT INFORMATION

US DOT INFORMATION:

Shipping Name: Not regulated as a dangerous material

Hazard Class: Not regulated

UN/NA #: None

Packing Group: None

Required Label(s): None

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Additional Info.: The carbon present in this product is prepared by a steam activated process. Testing using methods in 49CFR173 Appendix E has shown the product does not meet the definition of Hazard Class 4.2.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

Component Analysis None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

STATE REGULATIONS:

Component Analysis – State None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

OTHER REGULATIONS:

Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Activated Carbon (Coconut Shell)	7440-44-0	Yes	Yes	Yes

No components are listed in the WHMIS IDL.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION:

PREPARED BY: Mathew Clancy
REVISION DATE: June 23, 2011

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