

MATERIAL SAFETY DATA SHEET

ULTRA-HEAVY METAL REMOVAL MEDIA 1.0

MSDS DATE: 6/21/2011

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ultra-Heavy Metal Removal Media 1.0

MANUFACTURER: UltraTech International, Inc.
ADDRESS: 11542 Davis Creek Court
Jacksonville, FL 32256

EMERGENCY PHONE: 800-353-1611

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS NO.	WEIGHT %	EXPOSURE LIMITS
Quartz	14808-60-7	<0.5	ACGIH TLV – 0.025 mg/m ³ TWA (respirable fraction) OSHA PEL – ((250)/(%SiO ₂ + 5))mppcf TWA (respirable);((10)/(%SiO ₂ + 2))mg/m ³ TWA (respirable); ((30)/(%SiO ₂ + 2) mg/m ³ TWA (total dust)
Free Silica	7631-86-9	<0.1	ACGIH TLV – 10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable dust) OSHA PEL – 15 mg/m ³ (total dust); 5 mg/m ³ TWA (respirable fraction)
Activated Carbon (Coconut Based)	7440-44-0	Proprietary	ACGIH TLV – 10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable dust) OSHA PEL – 15 mg/m ³ (total dust); 5 mg/m ³ TWA (respirable fraction)

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Granular powder, airborne dust particles are irritating to respiratory tract. Contact with eyes or skin may cause irritation. May be harmful if inhaled. High airborne dust concentrations may cause an explosion hazard. Quartz (component) may cause risk of lung disease (i.e., silicosis and/or lung cancer). Activated Carbon (component), when wet and present in a confined space) may product and oxygen deficient atmosphere and presents a risk of asphyxiation to persons entering those areas.

ROUTES OF ENTRY: Inhalation

POTENTIAL HEALTH EFFECTS

EYES: Eye contact may cause severe irritation.

SKIN: Contact may result in drying of the skin.

INGESTION: Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting, and constipation.

INHALATION: Causes respiratory tract irritation. May cause coughing, shortness of breath, wheezing and reduced pulmonary function from pneumoconiosis.

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HEALTH HAZARDS: Prolonged inhalation of respirable crystalline silica dust (quartz) can result in lung disease (i.e., silicosis and/or lung cancer). Small amounts of activated carbon in solution, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death. Wet activated carbon may cause asphyxiation by adsorbing oxygen from confined spaces.

CARCINOGENICITY

OSHA: Component – Quartz – Yes

NTP: Component – Quartz – Yes

IARC Group 1: Component – Quartz - Yes

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove contact lenses. Flush eyes with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

SKIN: Wash with soap and water. If discomfort or irritation persists, consult a physician. Remove contaminated clothing and wash before reuse.

INGESTION: If ingested in large quantities, contact physician for permission to induce vomiting. **DO NOT** induce vomiting unless instructed to do so by medical personnel.

INHALATION: If symptoms develop, get fresh air, rinse mouth and nasal passages with fresh water. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

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

FLAMMABLE LIMITS IN AIR, UPPER: Not applicable
(% BY VOLUME) LOWER: Not applicable

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

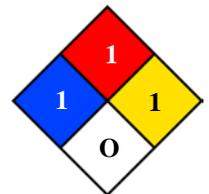
NFPA HAZARD CLASSIFICATION

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

HMIS HAZARD CLASSIFICATION

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

PROTECTION: Safety Glasses, Gloves, Dust Respirator



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

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Accumulation of airborne dusts may present an explosion or fire hazard in the presence of an ignition source.

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HAZARDOUS DECOMPOSITION PRODUCTS: This product is made of 96% non-combustible components; however, should the product combust it may emit carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons. Other materials adsorbed into the product may be released during combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Carefully shovel or sweep up (using a dust suppressing agent) spilled material and place in suitable container for recycle or disposal. Dampen with water spray or use other methods to clean spill which avoid creating dust. Discard empty packaging promptly. Avoid excessive handling of empty packaging, which may result in unnecessary release or airborne particulates.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid creating and inhaling airborne dust or particulates. Use with adequate ventilation. Wash clothing before reuse. Provide respiratory protection if needed.

STORAGE PRECAUTIONS: Store away from heat, ignition sources, combustible materials and incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Exhaust ventilation is recommended for operations to avoid nuisance dust and possible irritation.

RESPIRATORY PROTECTION: Wear OSHA approved dust respirators to avoid nuisance dust and possible irritation. Confined spaces containing wet activated carbon may be oxygen deficient atmospheres, use appropriate protective measures.

EYE PROTECTION: Safety glasses or goggles should be worn.

SKIN PROTECTION: Wear impervious gloves for long skin contact.

WORK HYGIENIC PRACTICES: Use good industrial hygiene practices in handling this material.

EXPOSURE GUIDELINES: See Section 2. Additionally, Quartz (Crystalline silica) is a naturally-occurring mineral that is commonly contained in materials that are mined from the earth's surface such as sand, limestone, clay and gypsum (Calcium sulfate). Total quartz is a value usually representing the combined fractions of large, nonrespirable sized particles and of respirable sized particles (less than ten microns in aerodynamic diameter). It is only the respirable fraction of total quartz that is recognized as hazardous by professionals in the field of Occupational Health and by most regulatory agencies.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White, off-white, and black solid

ODOR: None

PHYSICAL STATE: Solid

pH: Not applicable

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BOILING POINT:	>212°F / 100°C
MELTING POINT:	1800°F
FREEZING POINT:	Not applicable
VAPOR PRESSURE:	Unknown
VAPOR DENSITY:	Unknown
SPECIFIC GRAVITY:	0.38 – 2.4 (range of individual components)
SOLUBILITY (WATER):	Unknown

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid accumulation of airborne dusts. Dusts may be explosive when exposed to heat, flame, ignition sources, combustible material and incompatible materials.
INCOMPATIBILITY:	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:	Upon decomposition, this product may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials adsorbed onto the product may also be released during decomposition.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	See Section 3. Overexposure to component 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. Oral LD50 rats: >5g/kg.
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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	No data available for this product.
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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations. According to US EPA (40 CFR § 261.3) waste of this product is not defined as hazardous.
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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

ADDITIONAL INFO: The carbon present in this product is prepared by a steam activated process. Testing using methods in 49 CFR § 173 Appendix E has shown the product does not meet the definition of Hazard Class 4.2.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

CERCLA: None

SARA TITLE III:

311/312 HAZARD CATEGORIES:	Health Immediate (acute)	Yes
	Health Delayed (chronic)	Yes
	Flammable	No
	Reactive	No
	Pressure	No

313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

MASSACHUSETTS HAZARDOUS SUBSTANCE LIST: Quartz (CAS# 014808-60-7) <0.5 Wt%

INTERNATIONAL REGULATIONS:

CPR (CANADIAN CONTROLLED PRODUCTS REGULATIONS): This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

IDL (CANADIAN INGREDIENT DISCLOSURE LIST): Components of this product identified by CAS number and listed on the Canadian IDL are shown in Section 3.

WHMIS CLASSIFICATION(S): D2 A - This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

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CHEMICAL INVENTORY STATUS: All chemicals in this product are listed or exempt from listing in the following countries:

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION:

PREPARED BY: Mathew Clancy
REVISION DATE: June 21, 2011

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