

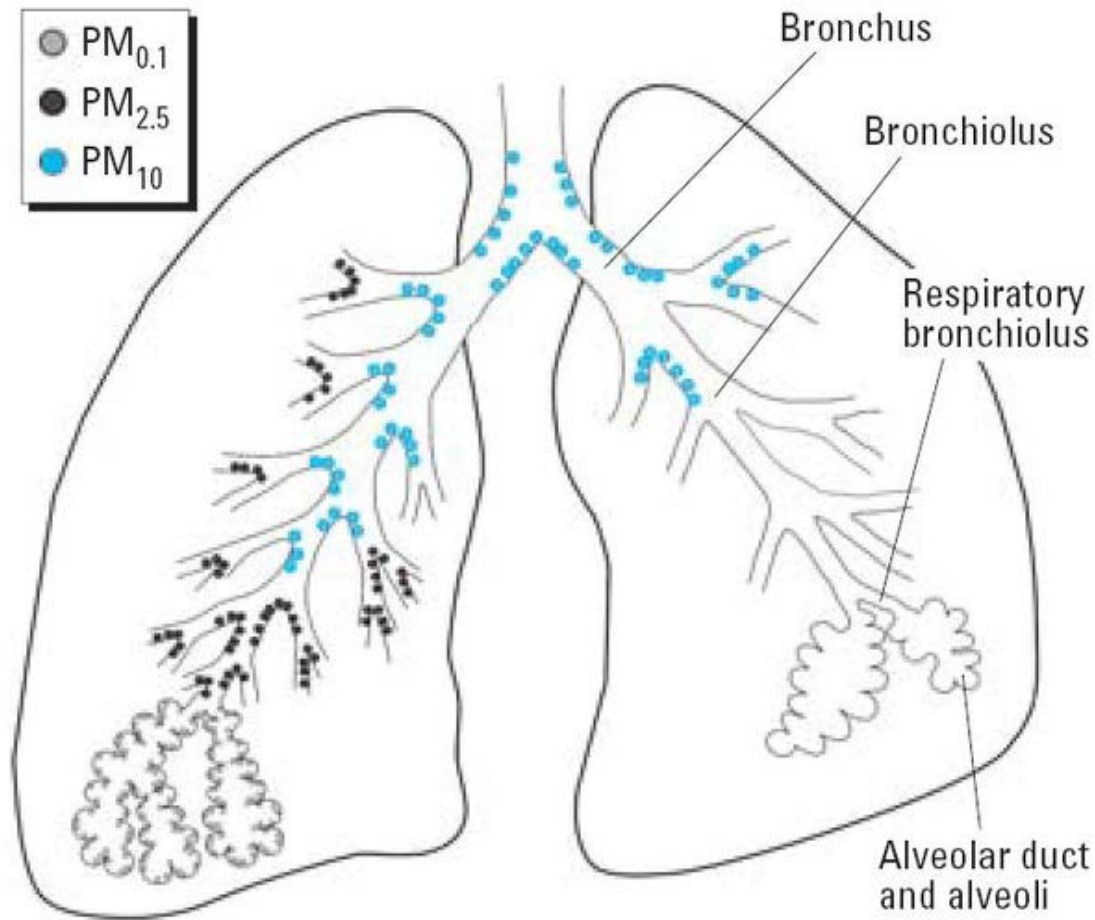
Vista Públicas EPA

25 agosto 2012

Incinerador Propuesto

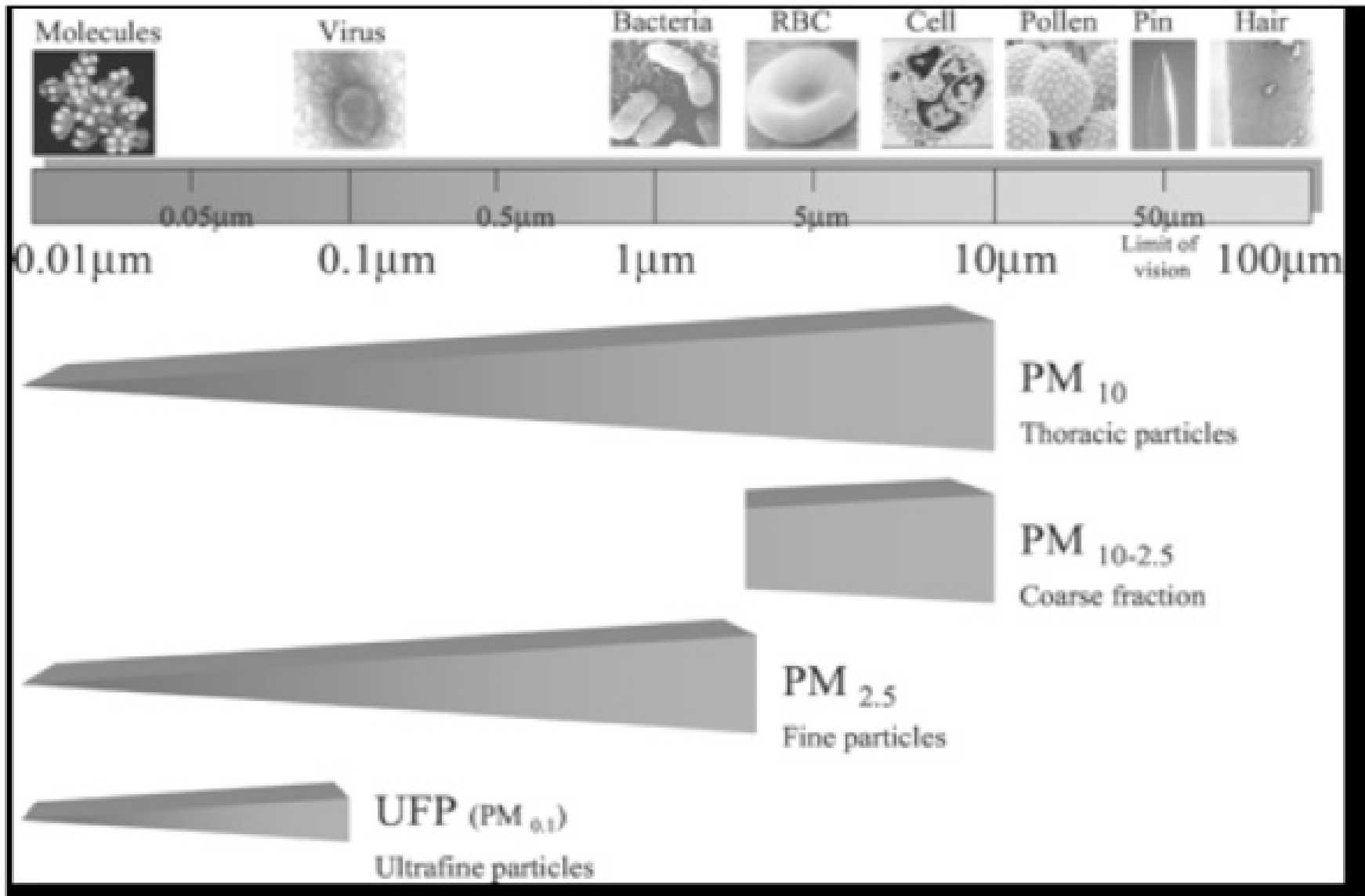


penetración de particulado en sistema respiratorio



Cortesía Dr. Howard, U del Ulster, Inglaterra; El particulado ultrafino ($PM_{0.1}$) llega directamente a los alveolos.

Comparación de particulado con organismos conocidos.



¿Cómo compara con polvo del Sahara?

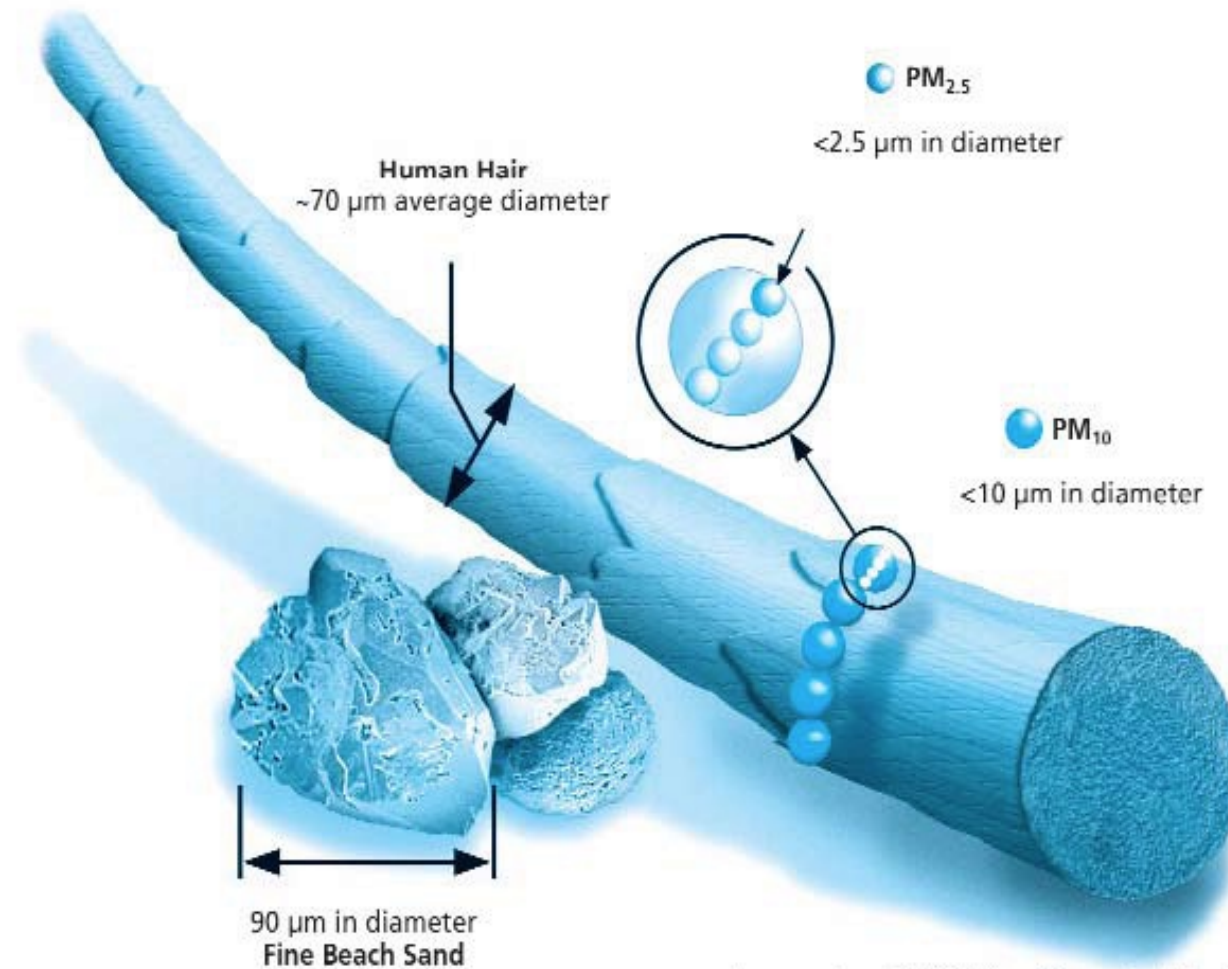
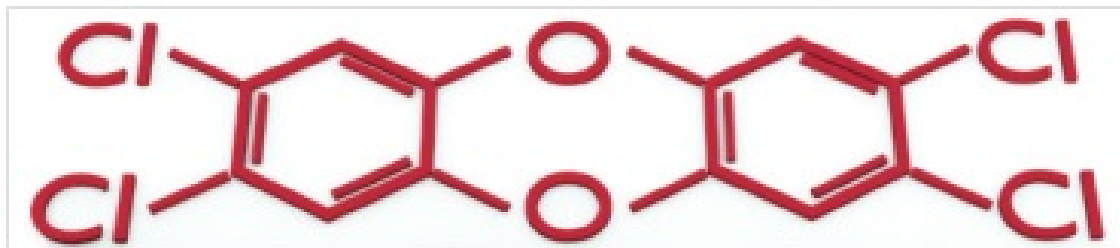


Image courtesy of EPA, Office of Research and Development

TCDD: la dioxina más tóxica



Las dioxinas tienen estructura y características químicas similares, y pueden causar toxicidad y enfermedad. La más tóxica es la TCDD.

Toxic Agent	Health Impacts
Particulate Matter	Increased respiratory symptoms, decreased lung function, aggravated asthma, development of chronic bronchitis, irregular heartbeat, nonfatal heart attacks, and premature death in people with heart or lung disease ⁹⁴
Carbon Monoxide	Chest pain, cardiovascular effects, vision problems, reduced ability to work or learn, reduced manual dexterity, difficulty performing complex tasks, and respiratory problems ⁹⁵
Nitrogen Dioxide	Irritation of eyes, nose, throat, and lungs, nausea, shortness of breath, respiratory problems, reduced oxygenation of body tissues, and a buildup of fluid in the lungs ⁹⁶

Toxic Agent	Health Impacts
HCl	Throat irritation, rapid breathing, blue coloring of the skin, accumulation of fluid in the lungs, swelling of the throat, reactive airways dysfunction syndrome, skin burns, respiratory problems, eye and skin irritation, and discoloration of teeth ⁹⁷
Cadmium	Severe lung damage, kidney disease, stomach irritation, increased bone fragility, and increased risk of lung cancer ⁹⁸
Lead	Adverse effects on nervous system, kidney function, immune system, reproductive and developmental systems, and cardiovascular system, and neurological effects (especially in children) ⁹⁹

Toxic Agent	Health Impacts
Mercury	Brain, kidney, and developing fetus damage, lung damage, nausea, vomiting, increased blood pressure, and ocular and dermal irritation ¹⁰⁰
Chromium	Irritation of respiratory lining, runny nose, breathing problems (cough shortness of breath, wheezing), skin rashes, reproductive damage, increased lung cancer, and increased stomach tumors ¹⁰¹
Arsenic	Sore throat, irritated lungs, nausea, vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, darkening of skin, skin irritation, and increased risk of skin, liver, bladder, and lung cancer ¹⁰²

Toxic Agent	Health Impacts
Beryllium	Lung damage, acute beryllium disease, chronic beryllium disease, and increased risk of lung cancer ¹⁰³
Dioxins and Furans	Chloracne, increased risk of cancer, increased risk of heart disease, and increased risk of diabetes ¹⁰⁴
Polychlorinated Biphenyls (PCBs)	Increased risk of cancer, specifically rare liver cancers and malignant melanoma, immune system damage, reproductive system damage, nervous system damage, endocrine system damage, dermal and ocular effects, and elevated blood pressure, serum triglyceride, and serum cholesterol ¹⁰⁵
Polycyclic Aromatic Hydrocarbons (PAHs)	Increased risk of cancer ¹⁰⁶