

Material Safety Data Sheet (MSDS) for Nanotubes

Carbon Nanotubes, Singlewall Nanotubes (SWNT), Multiwall Nanotubes (MWNT)

Physical Data

Solubility in Water: Insoluble

Appearance/ Odor: Dark granular solid; odorless

Toxicity/Health Hazards

No Toxicity Data Available

Eye Contact: Dust may cause irritation.

Inhalation: Dust causes irritation and is possibly allergenic.

First Aid:

Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water. In case of contact, immediately wash skin with soap and copious amounts of water. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. If swallowed, wash out mouth with water provided person is conscious.

Call a physician. Wash Contaminated clothing before reuse.

Fire and Explosion Hazard Data

Extinguishing Media:

Carbon Dioxide, Dry Chemical Powder, Polymer Foam, Water Spray

Special Firefighting Procedures:

Use normal procedures which include wearing self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards:

This material, like most materials in powder form, is capable of creating a dust explosion.

Reactivity Data

Incompatibilities: Strong Oxidizing Agents

Hazardous Combustion or Decomposition Products Toxic Fumes of: Carbon monoxide, Carbon dioxide

Spill or Leak Procedures

Steps to be taken if material is released or spilled: Wear respirator, chemical safety goggles, rubber boots and gloves.

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator, equipped with an afterburner and scrubber.

Handling and Storage

Chemical Safety Goggles. Compatible Chemical-resistant Gloves. NIOSH/MSHA approved respirator. Safety Shower and Eye Bath. Mechanical Exhaust Required. Do Not Breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Irritating dust. Keep tightly closed.

Store in a cool dry place.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. INTELLIGENT MATERIALS shall not be held liable for any damage resulting from handling or from contact with the above product.