



Green Earth Aerogel Technologies

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Emergency Phone Number: +34-699-819-608
 MSDS Date: 08/Apr/2010

MATERIALS SAFETY AND DATA SHEET

Section 1- Product Identification

Chemical Name:	Carbon	Trade Name:	Amorphous Carbon Aerogel
Formula:	C	Common Name:	Carbon
CAS Number:	7440-44-0	Chemical Family:	Element Group IV-A

Section 2- Ingredients Typical Values

Amorphous Carbon	-----	90-100%
Sodium Chloride (NaCl)	-----	0-9%
Inert Ingredients	-----	0-1%

Section 3- Physical and Chemical Data

Boiling Point:	4827 °C (Approx)	Vapor Pressure:	N/A
Vapor Density:	N/A	Solubility in Water:	Insoluble
Specific Gravity:	0.273	Percent Volatile by Volume	N/A
Appearance:	Black odorless powder, granules	Evaporation Rate:	N/A

Section 4- Fire and Explosion Hazards

Flash Point:	N/A
Ignition Point:	260 °C – 466 °C
Extinguishing Media:	Dry Chemical, Water Fog, Foam
Special Fire fighting Procedure:	Wear positive pressure self contained breathing apparatus if fire occurs in an enclosed space. Oxygen starved fires may result in the release of carbon monoxide
Unusual Fires and Explosion Hazards	Avoid producing suspension of dust during handling and avoid suspension to sources of ignition. Suspension of -40 mesh powders may explode if exposed to strong sources of ignition.

Section 5- Health Hazards Data

Eye:	Carbon particles may cause physical irritation if not removed
Skin Contact:	Constant prolonged exposure may cause dryness or chapping of exposed area
Skin Absorption:	Not absorbed by the skin
Ingestion:	No adverse affect unless quantity ingested causes physical discomfort
Inhalation:	No toxic affect by dust. As with any dust excessive exposure should be avoided. OSHA "Nuisances Dust" limitation should be observed.
Systemic and Other effects:	None
Eye:	Irrigate with water immediately. Repeat if needed to flush particle from eye. If irritation persist consult medical personnel.
Skin Contact:	Wash with soap and water to avoid skin drying or chapping
Ingestion:	N/A
Inhalation:	N/A



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Section 6- Reactivity Data Compatibility Data

Stability	Avoid contact with strong oxidizing chemicals such as ozone, perchloric acid, permanganate, sodium chlorite (NaClO ₂) etc. Exposure to hydrocarbons and vegetable oils may cause slow oxidation until ignition point is reached, contact should be avoided
Incompatibility	Strong oxidizing materials
Hazardous decomposition Products	Oxygen starved combustion may yield Carbon Monoxide
Hazardous Polymerization	Will not occur

Section 7- Storage Handling and Use

Action to take for spills	Shovel and sweep material into appropriate container. If necessary wash area with water.
Disposal Method	Reactivation, Landfill or incineration in accordance to applicable regulations.

Section 8- Personnel Protection

Ventilation	Local exhaust recommended minimizing dust exposure
Respiratory Protection	Approved "nuisance dust" mask should be worn in dust exposure areas.
Protective Clothing	Protective gloves can be worn
Eye Protection	Safety glasses with side shields should be worn and eye wash capabilities should be available.

Section 9- Special Precautions and Additional Information

Precautions to be taken during handling and storage:

Keep dry; wet carbon will absorb oxygen and may reduce oxygen levels in confined spaces to dangerous levels.

Adequate ventilation and precautions should be employed whenever closed tanks, receptacles or other enclosed spaces containing carbon are accessed. Suspension of dust should be avoided and exposure of suspension of dust to sources of ignition should be avoided.

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