



Material Data Sheet

		
Chemteq, Inc. 600 West 24 th Street, Suite B Norfolk, Virginia 23517, USA Tel: 757-622-2223 Toll-free: 855-CHEMTEQ (855-243-6837) info@chemteq.net	Material Data Sheet No. 2519885 Revision: 041221-A Part Number: 2519 Description: Mercury DG Filter with ESLI Product Name: DG Filter-2519-ESLI	
SECTION 1 – MATERIAL IDENTIFICATION		
Ingredient	CAS #	% by Weight
Activated Carbon:	7440-44-0	>50%
Polyvinyl Chloride:	None	45-50
Stainless Steel	None	2.0 – 2.5
Poly ester	None	0.5
Polyacrylic	None	0.1-0.2
SECTION 2 – HAZARDS IDENTIFICATION		
GHS-US Classification Eye Irritation 2B H320 STOT SE 3 H335		
Hazards not otherwise classified: Combustible dust. May form combustible dust concentrations in air. All powdered activated carbons are classified as weakly explosive (Dust explosion class St1): Given the necessary conditions of a strong ignition source, right concentrations of airborne carbon dust, adequate oxygen levels, and confinement, the potential for a deflagration event exists. A combustible dust hazard assessment and employee training should be carried out. See sections 7 and 9 for further information on combustible dust precautions.		
PICTOGRAM	SIGNAL WORD	HAZARD STATEMENT
	WARNING	H315: Causes skin irritation H320: Causes eye irritation
PRECAUTIONARY STATEMENT(S)		
PREVENTION	P261: Avoid breathing dust/fume. P264: Wash thoroughly after handling	
RESPONSE	P305: IF IN EYES: Irrigate for 15 minutes. P304: IF INHALED: Remove to fresh air	
STORAGE	P402: Store in a dry place. P403: Store in a well-ventilated place. P404: Store in a closed container.	
OTHER HAZARDS		
No additional information available 2.4 Unknown acute toxicity (GHS-US) No data available		
SECTION 3 – FIRST AID MEASURES		
NECESSARY FIRST AID INSTRUCTIONS		
INHALATION FIRST AID	Remove affected person to fresh air. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention immediately.	
SKIN CONTACT FIRST AID	Wash skin for 5 minutes with flowing water and soap. Clothing should be washed before reuse. Obtain medical assistance if irritation develops.	
EYE CONTACT FIRST AID	Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyelids open. Contacts should be removed before or during flushing. Get medical assistance if irritation develops.	
INGESTION FIRST AID	If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting unless directed to do so by medical personnel.	
DESCRIPTION OF MOST IMPORTANT SYMPTOMS		
Symptoms/injuries after inhalation: May cause respiratory irritation		

Symptoms/injuries after skin contact: May cause skin irritation Symptoms/injuries after eye contact: Causes serious eye damage Symptoms/injuries after ingestion: May be harmful if swallowed	
RECOMMENDATIONS FOR IMMEDIATE MEDICAL CARE	
No Additional Information Available.	
SECTION 4 – FIRE FIGHTING MEASURES	
Suitable Extinguishing Media: Water spray, carbon Dioxide, Foam or Dry Chemical.	
Unsuitable Extinguishing Media: None known	
Specific Hazards: Avoid producing suspensions of dust during handling and avoid exposure of suspensions to sources of ignition. Suspensions of - 40 mesh particles may explode if exposed to strong ignition sources. Carbon monoxide and carbon dioxide gas may be emitted upon combustion of material Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.	
Protective Equipment and Procedures: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in positive pressure mode.	
SECTION 5 – ACCIDENTAL RELEASE MEASURES	
Personal Precautions: Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of a material from eyes, skin, and clothing.	
Environmental Precautions: The impregnate on this product is water soluble. Dike all entrances to sewers and drains.	
Containment & Clean-up: Clean up spills in a manner that does not disperse dust into the air. Avoid introducing materials into waterway.	
SECTION 6 – HANDLING AND STORAGE	
Precautions for Safe Handling: Avoid dispersion into air. Keep containers dry and closed. Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation to draw dust away from workers' breathing zones. Prevent or minimize exposures to dusts by using appropriate respirators, gloves and eye protection. Wash exposed skin areas thoroughly with soap and water. Use caution when pouring, using pneumatic transport, swirling, etc. as this material can become electrostatically charged and present a dust explosion hazard.	
Conditions for Safe Storage: Avoid spilling material so as to avoid creating a dust suspension. Store at ambient atmospheric conditions. Product should be stored in a closed dry container. Maintain good housekeeping procedures. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.	
SECTION 7 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
ENGINEERING CONTROLS	
Provide ventilation if necessary, to minimize exposure. General ventilation is usually acceptable, but local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.	
RESPIRATORY PROTECTION	
If use conditions generate dust levels above the TLV / PEL, wear a NIOSH-approved particulate respirator or a NIOSH-approved cartridge respirator fitted with dust filters.	
SKIN PROTECTION	
Wear appropriate dust resistant clothing and gloves.	
EYE/FACE PROTECTION	
Safety glasses with side shields. If eye contact or dusty conditions are likely, wear dust tight goggles.	
SECTION 8 – PHYSICAL/CHEMICAL PROPERTIES	
Physical state	: Solid
Appearance	: Particulate
Color	: Black
Odor	: No data available
Odor threshold	: No data available
Ph	: No data available
Relative evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available

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Boiling point	: No data available		
Flash point	: No data available		
Self-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor Pressure	: No data available		
Relative Vapor density @ 20 deg C	: No data available		
Relative Density	: 28-33 lb/ cubic foot		
Solubility	: No data available		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosive limits	: No data available		
Combustible dust- These products may contain combustible dusts. May form combustible dust concentrations in air. All powdered activated carbons are weakly explosive. No specific information on these carbons are available.			
Typical combustible dust data for a variety of activated carbons:			
Kst values reported between 43-113 (various sources).			
Dust explosion class St1 (Kst values < 200 are Class St1-weakly explosive). MEC (minimum explosible concentration) in air 50 and 60 g/m3 (two reports) Volatile content (by weight): < 8% ASTM D3175-11 (Water carb)			
MIT (minimum ignition temperature) values reported between 400-680°C (752-1256°F) (four reports)			
Maximum Absolute Explosion pressure values reported between 6.0-8.6 bar (four reports)			
Flammability	NA	Decomposition Temperature	NA
UEL	NA	Viscosity	NA
SECTION 9 – STABILITY AND REACTIVITY			
Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, etc. may result in fire			
CONDITIONS TO AVOID			
Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.			
SECTION 10 – TOXICOLOGICAL INFORMATION			
Acute toxicity	: Not classified		
Carbon (7440-44-0)			
LD50 oral rat	: >10000 mg/kg Skin corrosion/irritation : Not classified		
Serious eye damage/irritation	: Causes eye irritation Respiratory or skin sensitization: Not classified		
Germ cell mutagenicity	: Not classified	Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified		
Specific target organ toxicity	: May cause respiratory irritation (single exposure) Specific target organ toxicity		
	: Not classified (repeated exposure)		
Aspiration hazard	: Not classified		
SECTION 11 – ECOLOGICAL INFORMATION			
The material, in its original state, is not harmful to the environment.			
SECTION 12 – DISPOSAL CONSIDERATIONS			
Dispose of contents/container in accordance with the local/regional/national/international regulations.			
SECTION 13 – TRANSPORT INFORMATION			
SECTION 14 – REGULATORY INFORMATION			
15.1 US Federal regulations			
Carbon (7440-44-0)			
Listed on the United States TSCA inventory			
15.3 US State regulations			
No additional information available			
SECTION 15 – OTHER INFORMATION			
THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE PROVIDED FREE WITHOUT			

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