


Section 1: Product & Company Information

Product Name: Activated Carbon
Chemical Family: Carbon
Product Use: Water purification, gold recovery & air scrubbing

Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	None	Not a Controlled Product	

Manufacturer Name: HiTech Fluid Systems
Address: #1800, 505 3rd Street SW, Calgary, AB T2P 3E6 Canada
General Phone Number: (403)547-2906
General Fax Number: (403)547-3129
MSDS Revision Date: June 1, 2008
Supercedes: June 23, 2005
Prepared By: HiTech Fluid Systems
Preparer's Phone: (403)547-2906

Section 2: Composition/Information on Ingredients

Chemical Name	Concentration	CAS#
No Hazardous Ingredients		

Section 3: Hazards Identification

Emergency Overview: Seek medical attention if symptoms develop or persist.

Routes of Entry:

Skin Contact: Yes
Skin Absorption: No
Eye Contact: Yes
Inhalation: No
Ingestion: No

Potential Health Effects:

Skin:	None.
Eye:	Mechanical dust irritation
Inhalation:	Non-toxic through inhalation
Ingestion:	Non-toxic through ingestion

Section 4: First Aid Measures

Eye Contact:	Flush immediately with water for at least 20 minutes. Forcibly hold eyelids open to ensure complete irrigation of eye tissue. Seek medical attention.
Skin Contact:	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
Inhalation:	Remove patient to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.
Ingestion:	No known health effects. Seek medical attention if any problems are experienced.
Other First Aid:	Seek medical attention if symptoms develop or persist.

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Non-combustible under normal circumstances. Once ignited, the fire generally burns slowly with a dull glow and may be difficult to detect.
Extinguishing Media:	Dry chemical, CO ₂ , alcohol foam, water spray
Flashpoint:	Not Applicable
Upper Flammable Limit:	Not Applicable
Lower Flammable Limit:	Not Applicable
Autoignition Temperature:	Above 175°C (350°F)
Protective Equipment:	Firefighters must wear appropriate breathing apparatus and clothing.
Sensitivity To Impact or Static Discharge:	Airborne dust may create an explosion hazard.
Hazardous Combustion Products:	None
Fire Comment:	

Section 6: Accidental Release Measures

- Personnel Precautions:** Use proper personal protective equipment as listed in section 8.
- Spill Cleanup Measures:** Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use. Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal.

Section 7: Handling & Storage

- Handling:** Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.
- Storage:** Store in a cool, dry, well ventilated place. Keep container tightly closed and away from incompatible materials.

Section 8: Exposure Controls, Personal Protection, Exposure Guidelines

- Engineering Controls:** Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.
- Personal Protective Equipment:** Chemical-resistant clothing is recommended, including gloves, apron, and goggles.
- Respiratory Protection:** Respiratory protection is not normally required. If use creates dust formations, then NIOSH-approved respirator with dust cartridge is recommended.
- Exposure Limits:** OSHA PEL = 5mg/m³ as resp. ACGIH TLV = 10 mg/m³ as total

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
No Hazardous Ingredients		

Section 9: Physical & Chemical Properties

- Physical State:** Solid
- Odour And Appearance:** Black particulate powder; odourless
- Odour Threshold:** Odourless
- Boiling Point:** 4200°C
- Evaporation Rate:** Not Applicable
- Melting Point:** 3652°C
- Freezing Point:** Not Applicable
- Specific Gravity:** 2.25
- Solubility in Water:** Insoluble

Vapour Density:	Not Applicable
Vapour Pressure:	Not Applicable
pH:	Not Applicable
Flash Point:	Not Applicable
Volatility (% by volume):	0%
Coefficient of Water to Oil distribution:	Not Applicable

Section 10: Stability & Reactivity

Chemical Stability:	Yes
Hazardous Polymerization:	Will not occur.
Conditions Of Chemical Instability:	Not Applicable
Incompatible Substances:	Strong oxidizers such as ozone, liquid oxygen, chlorine, potassium permanganate, etc.
Special Decomposition Products:	Carbon monoxide may be generated in the event of a fire, especially with incomplete combustion in an enclosed space.

Section 11: Toxicological Information

Chemical Name	LD ₅₀ (Oral Rat)	LD ₅₀ (Dermal Rabbit)	LC ₅₀ (Inhalation Rat)
No Hazardous Ingredients			

Effects Of Acute Exposure:	Not Determined
Effects Of Chronic Exposure:	Not Determined
General Irritancy Of Product:	Not Determined
Sensitization:	Not Determined
Carcinogenicity:	Not considered to be a carcinogen by IARC, NTP, and OSHA.
Reproductive Toxicity:	Not Determined
Teratogenicity:	Not Determined
Embryotoxicity:	Not Available
Mutagenicity:	Not Determined
Synergistic Products:	Not Determined

Section 12: Ecological Information

Ecotoxicity: Not Available

Environmental Fate: Not Available

Section 13: Disposal Considerations

Waste Disposal: All waste should be disposed of according to federal, provincial and local regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government regulations.

Section 14: Transport Information

TDG Classification: N/A

DOT UN Number: N/A

Shipping Notes: No special requirements

Section 15: Regulatory Information

Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	None	Not a Controlled Product	

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16: Additional Information

MSDS Revision Date: June 1, 2008

MSDS Revision Notes:

MSDS Author: HiTech Fluid Systems

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