

## 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:**

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

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**Section 4: First Aid Measures**

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

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**Section 5: Fire Fighting Measures**

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

## Section 6: Accidental Release Measures

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- 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

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- 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

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- 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/m<sup>3</sup> as resp. ACGIH TLV = 10 mg/m<sup>3</sup> as total

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

## Section 9: Physical & Chemical Properties

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- 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

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

## Section 10: Stability & Reactivity

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

## Section 11: Toxicological Information

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Chemical Name	LD <sub>50</sub> (Oral Rat)	LD <sub>50</sub> (Dermal Rabbit)	LC <sub>50</sub> (Inhalation Rat)
No Hazardous Ingredients			

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

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## Section 16: Additional Information

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**MSDS Revision Date:** June 1, 2008

**MSDS Revision Notes:**

**MSDS Author:** HiTech Fluid Systems

**Disclaimer:** This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.