



# Material Safety Data Sheet

## Section 1 - Product Identification and Use

Product Identifier: **GRANULAR ACTIVATED CARBON (GAC)**

Description: Black granule, pellet or powder, activated carbon

Product Use: Water filtration & treatment/air treatment

Manufacturer's Name:

PICA USA Inc.  
432 McCormick Boulevard  
Columbus, Ohio 43213-1585  
Phone: [614] 864-8100  
Emergency Phone: [800] 424-9300

Supplier's Name:

AWI (Anthratech Western Inc.)  
4450 – 46 Avenue, SE  
Calgary, Alberta T2B 3N7  
Emergency Phone: [403] 255-7377

\* Activated Carbon is manufactured by PICA USA Inc. and is distributed by AWI.

## Section 2 - Hazardous Ingredients

This material is composed of 100% activated carbon. Caution should be taken not to inhale dust.

CARBON:	LD50-Oral:	N/A	C.A.S. #:	7440-44-0
	LC50:	N/A	Range % (w/w):	90-100
	LD50-Dermal:	N/A	T.L.V.:	3.5 mg/cu.m

## Section 3 - Physical Data

Boiling Point:	N/A	Incompatibility:	Avoid contact with strong oxidizers
Solubility in Water:	Not soluble	Flash Point:	N/A
Specific Gravity:	0.30 - 0.50 @ 25 °C	Stability:	Stable
Melting Point:	3500 °C	pH:	8-10, 10% suspension in water
Appearance and Odour:	Odourless black solid, flake, granule or pellet, no odour		

## Section 4 - Fire and Explosion Data

Flash Point:	N/A	Extinguishing Media:	Water, foam, CO <sub>2</sub> , or dry chemical
Upper Flammable Limit:	N/A	Lower Flammable Limit:	N/A

General Fire Hazards: When exposed to air activated carbon can be a potential fire hazard because of its very high surface area and absorptive capacity. Accumulation of airborne dusts may present an explosion or fire hazard in the presence of an ignition source.

Hazardous Combustion Products: Upon combustion, this product may emit carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Other materials absorbed onto the carbon may also be released during combustion.

## Section 5 - Reactivity Data

Stability: Stable  
Incompatibility: Oxidizers, nitric acid, hydrogen, peroxide, metals, oxosalts, potassium, nitric acid, sodium sulphide, halogens, oxygen, ozone bromates, chlorates, iodates and nitrates.  
Hazardous Polymerization: Will not occur  
Hazardous Decomposition: Normal combustion

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## Section 6 - Toxicological Properties

### Potential Health Effects:

Eye Contact: Contact may produce mechanical eye irritation.  
Skin Contact: Skin irritation would not be expected from single short term exposure to this product. Prolonged or repeated contact may produce some irritation.  
Ingestion: Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting and constipation. Small amounts of this product in solution, if aspirated into lungs, may cause mild to severe pulmonary injury, possibly death.  
Inhalation: Chronic inhalation may produce carbon deposition in the lungs. Oral LD50 rats: >5g/kg.  
No carcinogenicity data available for this product.

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## Section 7 - Preventative Measures

Spilled or released material may be swept up and discarded or repackaged  
Waste Disposal: Non toxic. Dispose of in accordance with all federal, provincial and local regulations.  
Handling/Storage: Provide adequate ventilation. Store away from heat, ignition sources, combustible materials and incompatible materials.

**CAUTION!** Wet activated carbon removes oxygen from the air causing a severe hazard to workers in confined spaces. Sampling and work procedures for low oxygen levels should be taken whenever workers may be entering carbon vessels, enclosed, or confined spaces. All federal, provincial, and local regulations should be observed.

Respiratory: Wear approved dust and mist respirator NIOSH/OHSA  
Eyes: Approved safety glasses with side shields must be worn at all times.  
Gloves: (protective) None required  
Ventilation: Local exhaust  
Clothing: Proper work clothing to be worn to prevent skin contact  
Hygiene: Maintain clean environment

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## Section 8 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.  
Skin: Wash with soap and large amounts of water. If irritation persists, seek medical attention.  
Ingestion: If material is swallowed, get immediate medical attention or advice – DO NOT induce vomiting unless instructed to do so by medical personnel.  
Inhalation: Remove source of contamination or move victim to fresh air. Seek medical attention if irritation persists.

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## Section 9 - Preparation of Date of MSDS

Prepared by: Kellsie Donaldson (Safety Officer)  
AWI, 4450 – 46 Ave SE; Calgary, AB T2B 3N7  
Telephone Number: [403] 255- 7377  
Date Prepared: January 13, 2010

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change, and conditions of handling, use or misuse of this product are beyond our control. Users should satisfy themselves that they are aware of all of the current data relevant to their particular use.