

KI01246 A

Carbon Resources

4382.

Materials Safety Data Sheet

sabre series™ All Grades

SECTION 1 Chemical Product and Company Information

Carbon Resources, LLC
2535 Jason Ct.
Oceanside, CA 92056

Telephone Number: (760) 630-5724

Fax: (760) 630-9930

PRODUCT NAME: sabre series™ All Grades
CHEMICAL NAME: ACTIVATED CARBON
CHEMICAL FORMULA: C
CHEMICAL FAMILY: ACTIVATED CARBON
PRODUCT USES: VAPOR AND LIQUID FILTRATION APPLICATIONS

SECTION 2 Composition / Information on Ingredients

Components	CAS#	% by weight	Hazardous
Carbon	7440-440	90-98	Yes*

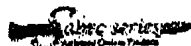
*By OSHA definition, 29 CFR 1910.1200 (see section 3 for Hazards identification, Section 8 for exposure guideline and section 15 for other information).

SECTION 3 Hazards Identification

Black powder, granules or pellets with no odor.

NEVER ENTER A CONFINED SPACE CONTAINING ACTIVATED CARBON SINCE IT CAN ADSORB OXYGEN AND ASPHYXIATION MAY RESULT.

The primary concerns for occupational exposure are skin contact and inhalation in the form of dust. The dust may cause eye irritation, slight skin irritation, and possible respiratory tract irritation that can cause coughing or sneezing.



12/07

2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com

Materials Safety Data Sheet

SECTION 4 First Aid Measures

EYES: Immediately flush with large amount of water.
SKIN: Immediately flush affected area with water. Wash clothing.
INHALATION: Remove to fresh air.
INGESTION: Induce vomiting as directed by medical personnel.

SECTION 5 Fire Fighting Measures

Flash Point : N/A
Ignition Temperature: > 400 C

Fire and Explosion Hazards:

When burned, hazardous products of combustion including oxides of carbon can occur. Irritating and/or toxic gases due to decomposition of the product may be generated during a fire. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

Extinguishing Media:

Dry chemical, water fog, foam or carbon dioxide.

Fire Fighting Procedures:

Wear full protective clothing and NIOSH approved self-contained breathing apparatus.

SECTION 6 Accidental Release Measures

Leak or Spill:

When leaks or spills occur, clean up in a fashion that does not dissipate dust into air. Manage in accordance with good industrial hygiene and safety practices such as avoiding unnecessary exposure and removal of material from skin, clothing and eyes.



12/07

2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com

Materials Safety Data Sheet

SECTION 7 Handling and Storage

Storage:

Product shall be stored in sealed containers in dry, well ventilated area away from strong oxidizers (chlorine, permanganate and ozone, etc.), Ignition sources, combustible materials, and heat.

Handling:

Avoid contact with eyes and skin. Avoid scattering of dust into air and breathing of dust. Keep containers dry and closed. Wash skin thoroughly after handling.

SECTION 8 Exposure Controls / Personal Protection

Respiratory protection:

Where airborne exposure is probable, use NIOSH approved respiratory protection equipment suitable to the material.

Skin Protection:

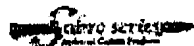
Avoid skin contact. Wear appropriate dust resistant clothing. Wash clothes and related equipment before reuse. Completely wash skin after handling. Wear gloves and long sleeve shirts to prevent long long term exposure.

Eye Protection:

Safety glasses with side panels are required for any form of handling. Provide an eye flushing station nearby.

Airborne Exposure Guidelines:

OSHA and ACGIH have not established exposure limits for this material. However, OSHA and ACGIH have established limits for nuisance dusts which are 15 mg/m total dust and 5mg/m respirable dust. The ACGIH TLV/TWA for nuisance dusts called particulates not otherwise classified (PNOC) is 10 mg/m inhalable particulate and 3 mg/m respirable particulate.



12/07

2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com

Materials Safety Data Sheet

SECTION 9 Physical and Chemical Properties (Typical)

Boiling Point, C:	N/A	Freezing Point, C:	N/A
Specific Gravity:	0.8-2.1	% Volatiles:	N/A
Vapor Pressure (20 C):	N/A	Solubility (water):	Insoluble
Vapor Density:	N/A	Appearance:	Black powder, granules, or pellets.
Evaporation rate:	N/A	pH: 2.5 - 10	
Odor:	None		

SECTION 10 Stability and Reactivity

Hazardous Decomposition:
Oxides of carbon (CO & CO2).

Hazardous Polymerization:
Does not occur.

Stability:
Activated carbon is determined stable under the outlined conditions of storage, shipment and use.

Incompatibility:
Rapid combustion is possible when in contact with strong oxidizers such as ozone, liquid oxygen, chlorine, etc.

SECTION 11 Toxicological Information

Eyes:	Not an eye irritant other than dust
Skin:	Not a primary skin irritant, sensitizing or corrosive agent
Inhalation:	Not established
Ingestion:	Oral LD50 >5g/kg (rats)
Subchronic Effects:	Not established
Teratology (Birth defects)	Not established
Mutagenicity (Genetic effects)	Not established



12/07

2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com

Materials Safety Data Sheet

SECTION 12 Ecological Information

Ecotoxicological information:

Because this material is a relatively inert substance and is insoluble in water, it is not expected to pose significant ecological hazards. The environmental persistence of this material would be primarily based on its physical form, that is, fine particles of this material could be dispersed in the environment by wind and water, while large particles would persist with little dispersion.

Chemical Fate information:

No data is available

SECTION 13 Disposal Considerations

Recover, reclaim or recycle when practical. Activated Carbon alone is not classified as a hazardous waste (activated carbon used to adsorb hazardous substances may become hazardous due to the chemicals it has adsorbed). Dispose of in accordance with federal, state and local regulations.

SECTION 14 Transport Information

DOT Name	Not regulated by DOT
DOT Hazard Class / Packing Group	NA
UN Number	NA

Note: sabre series™ activated carbons pass the test for self-heating substances as reflected in the United Nations Recommendations on the Transport of dangerous Goods, manual of Tests and Criteria (see 33.3.1.3.3) and is not considered spontaneously combustible. Therefore, the provisions for shipping activated carbon, class 4.2, in the IATA, ICAO, and IMDG Code publications do not apply to shipments of this material.

12/07



2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com

Materials Safety Data Sheet

SECTION 15 Regulatory Information

Sara Hazard Classification:

Immediate (Acute) Health:	Yes
Delayed (Chronic) Health:	No
Sudden release of Pressure:	No
Reactive:	No
Fire:	No

Sara Title III, Section 302:

Does not contain any chemicals under this section.

Sara Title III, Section 313:

Does not contain any chemicals under this section.

TSCA:

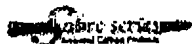
Activated carbon is tested on the TSCA inventory list.

California proposition 65:

Activated carbon does not contain any chemicals currently on the California List of known carcinogens and reproductive toxins.

U.S. Federal Regulations:

OSHA (29 CFR 1910.1200)	Air contaminate, Table Z-1-A
CERCLA (40 CFR 302.4)	Contains no CERCLA hazardous substance
RCRA (40 CFR 261.33, 261.20-24)	Listed hazardous waste: No



12/07

2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com



PELLETIZED ACTIVATED CARBON CR4AN

CR4AN is a pelletized activated carbon produced from anthracite coal by a high temperature activation process under stringent quality control. It has a large surface area, high mechanical hardness, excellent pore volume and chemical stability.

FEATURES AND BENEFITS

- ◆ High adsorption capacity and efficiency
 - ◆ Hard and durable
- ◆ Highly developed pore structure

SPECIFICATIONS

Particle shape	4-mm diameter pellet
Iodine Number (mg/g)	1050 minimum
Carbon Tetrachloride Number	60% minimum
Hardness Number	95 minimum
Moisture (as packed)	3% maximum
Apparent Density (g/cc)	0.48 typical

Packaged in 55-lb. bags, or 1100-lb. super sacks.
All of the above test methods are performed using AWWA and ASTM protocol for activated carbon.

10/07

This information has been gathered from standard reference materials and/or test data that is assumed to be accurate and reliable. Carbon Resources, LLC, only warrants that this product will meet the above described published specifications and makes no other warranties of any kind either expressed or implied including but not limited to fitness for a particular purpose or application. Buyer assumes all liability and risk that may arise from the use of this product.

2535 Jason Ct. • Oceanside, CA • 92056 • 760-630-5724 • fax 760-630-9930 • www.carbonresources.com