



## SAFETY DATA SHEET

### **Section I - Identity**

Identity (As Used on Label and List): Sulforsorb Plus, (Granular)  
Manufacturers Name: General Carbon Corporation  
33 Paterson Street  
Paterson, NJ 07501  
Tel: (973)523-2223  
Date Prepared: September 22, 2017

### **Section II – Composition/Information on Ingredients**

<u>Identity</u>	<u>Cas No.</u>	<u>%</u>
Activated Carbon	7440-44-0	100

### **Section III – Hazards Identification**

#### Emergency overview

Odorless black granules or powder. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. When workers enter a vessel containing activated carbon, follow procedures for potentially low oxygen. Workers should also take appropriate precautions when dealing with spent (used) activated carbons which may exhibit properties of adsorbed materials.

#### Potential health effects

Medical conditions aggravated by exposure: None documented

#### Routes of exposure:

Eyes: Not corrosive, but like most particulate materials, may cause mild physical irritation.  
Skin: Not corrosive and not a primary skin irritant. Mild irritation is possible due to abrasive action of dust.  
Ingestion: No known deleterious effects.  
Inhalation: Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.  
Chronic Effects: IARC: Not listed                      NTP: Not listed                      OSHA: Not regulated

For additional information, see Section 16.

### **Section IV – First Aid Measures**

Skin: Wash material off the skin with soap and water. Seek medical attention if irritation occurs.  
Eyes: Flush with copious amounts of water. Seek medical attention if irritation occurs.  
Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.  
Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

## **Section V – Fire Fighting Measures**

Flashpoint: Not Applicable  
Non-flammable: 16CFR1500.44.  
Not Self Heating: UN Manual of Tests and Criteria, Test N.3.  
Flammability Limits in Air: LFL and UFL Not Applicable

### General hazard:

Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Toxic gases will form upon combustion.

### Firefighting instructions:

If possible to do safely, move smoldering activated carbon to a non-hazardous area, preferable out of doors. Extinguish fire using water fog, fine water spray, carbon dioxide or foal. Avoid stirring up dust clouds.

### Firefighting equipment:

Firefighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

### Hazardous combustion products:

Combustion products may include smoke and oxides of carbon (for example, carbon monoxide). Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Under certain conditions, any airborne dust may be an explosion hazard. Used activated carbon may produce additional combustion products.

## **Section VI – Accidental Release Measures**

### If a spill or leak occurs:

Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal of material from eyes, skin, and clothing.

### Disposal method:

Spent granular activated carbon may be recyclable. Dispose of virgin (unused) carbon (waste or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with applicable laws.

### Container disposal:

Do not reuse empty bags. Dispose of in facility permitted for non-hazardous wastes.

## **Section VII – Handling and Storage**

Storage Temperature: Ambient  
Storage Pressure: Atmospheric  
Handling: 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 personal protection equipment.  
Wash exposed skin areas thoroughly with soap and water after handling.  
Storage: Store product in a closed dry container. Maintain good housekeeping. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

## **Section VIII – Exposure Controls / Personal Protection**

Engineering Controls: Use local exhaust ventilation to control emissions near the source.  
Eye Protection: Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may be likely, dust tight goggles are recommended. Have eye flushing equipment available.

Skin Protection: Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Airborne Exposure Guidelines:

Recommended Exposure Limits 8-hr TWA	Activated Carbons
Total Dust	2.1 mg/m <sup>3</sup> *
Respirable Fraction	0.7 mg/m <sup>3</sup> *

\* OSHA and ACGIH have not established specific exposure limits for this material. These guidelines are based on a conservatively high concentration of silica quartz (12%). Actual airborne silica concentrations may be much lower. If so, the PEL or TLV would be higher. No ceiling or short-term exposure limits have been set by OSHA or ACGIH.

### **Section IX – Physical and Chemical Properties**

Boiling Point, C:	NA	Freezing Point, C:	NA
Bulk Density – Granular Grades:	23-28 lbs/ft <sup>3</sup>	% Volatiles:	NA
Vapor Pressure:	NA	Solubility in Water:	Insoluble
Vapor Density:	NA	Appearance and Odor:	Black granules
Evaporation Rate:	NA		

NA – Not applicable

### **Section X – Stability and Reactivity Data**

#### Stability:

This product is stable under the specified conditions of storage, shipment and use.

#### Incompatibility:

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.

#### Hazardous Decomposition Products:

Oxides of carbon.

#### Hazardous Polymerization:

Does not occur.

### **Section XI – Toxicological Information**

This material is non-toxic in its original state. Used activated carbon may exhibit characteristics of the adsorbed material.

### **Section XII – Ecological Information**

This material, in its original state, is not harmful to the environment. Used activated carbon may exhibit characteristics of the adsorbed material.

### **Section XIII – Disposal Considerations**

Activated carbon, in its original state, is not a hazardous material or hazardous waste. Follow applicable governmental regulations for waste disposal.

Used activated carbon may become classified as a hazardous waste depending upon the application. Follow applicable regulations for disposal.

Recycling (reactivated) may be a viable alternative to disposal.

### **Section XIV – Transport Information**

DOT (Department of Transportation)

Proper Shipping Name: Activated carbon (Not DOR Regulated).

Hazard Class: Not applicable.

UN/NA Number: Not applicable.  
Packing Group: Not applicable.  
Freight Classification: STCC Code - #2899643 NMFC #040560

### **Section XV – Regulatory Information**

#### Federal regulation:

OSHA Hazard Communication Standard, 29CFR1910.1200: See “Particulates no otherwise regulated” in Table Z-1, of 29CFR1910.1000, “Limits For Air Contaminates”.  
CERCLA/SUPERFUND, 40cfr117, 302: Notification of spills of this material is not required.  
SARA/SUPERFUND: Section 302 – Extremely Hazardous Substances (40CFR355): This product is not listed as an extremely hazardous substance.  
Section 313 – List Of Toxic Chemicals: This product is not listed.  
Toxic Substances Control Act, 40CFR710: Activated carbon is on the inventory list.  
Resource Conservation and Recovery Act: Activated carbon, in its original state, does not meet the criteria of hazardous waste.

#### State regulations:

California Occupational Safety and Health: Silica is listed on the “Hazardous Substances List”.  
Massachusetts Substance List: Quartz is listed as a hazardous substance.  
New Jersey Right-to-Know: Silica is listed on the Hazardous Substance List.  
Pennsylvania Right-to-Know: Quartz is listed on the Hazardous Substance List.

### **Section XVI – Other Information**

Activated carbon can be safely stored in any normal storage area, but away from sources of direct heat.

WARNING: Activated carbon (especially when wet) can deplete oxygen from the air, and dangerously low levels of oxygen may result. When workers enter a vessel containing activated carbon, procedures for potentially low oxygen areas should be followed.

Activated carbons are not listed as potential carcinogens by any agency. Activated carbons may contain crystalline silica, which has been listed as a potential carcinogen of the lungs by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP). Much of the silica is inextricably bound within the particles of activated carbon, and does not present a substantial health hazard. We recommend and follow a practice of requiring respiratory protection whenever there is any evidence of airborne dust.

\*\*\* The information contained herein is accurate to the best of our knowledge. General Carbon Corporation makes no warranty with respect hereto said information and disclaims all liability from reliance there in. \*\*\*