

# CARUSORB<sup>®</sup>

## 200

### INFORMATION SHEET

Carusorb<sup>®</sup> 200 is an air filter medium consisting of a formulation of activated alumina and potassium permanganate specifically designed for control of hydrogen sulfide, mercaptans, sulfur dioxide and other corrosive gaseous contaminants. Major application areas include protection of delicate instrumentation from corrosion and odor control, in the vicinity of various processes which emit hydrogen sulfide.

### CHEMICAL AND PHYSICAL DATA

#### Description

Brightly colored purple spheres of activated alumina containing potassium permanganate

#### Chemical Content

About four percent potassium permanganate by weight. Twelve to sixteen percent moisture, by weight.

#### Particle Size

Spheres ranging from ¼" to 8 mesh. Other sizes are available upon request

#### Bulk Density

Forty-five to fifty pounds per cubic foot

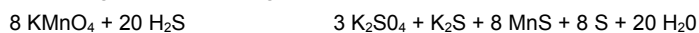
#### Stability

Since this product is used for air purification, it must be kept in tightly closed containers prior to use.

### PERFORMANCE DESCRIPTION

Due to the sorptive properties of activated alumina, Carusorb<sup>®</sup> 200 quickly sorbs airborne impurities to which it is exposed. In addition, oxidizable impurities are oxidized by the potassium permanganate present.

Carusorb<sup>®</sup> 200 is specifically designed for control of hydrogen sulfide and similar acidic and/or sulfur-bearing materials. Hydrogen sulfide is converted to an insoluble, sulfur-containing residue, which is retained by Carusorb<sup>®</sup> 200, and water, according to the following overall solid state chemical reaction



The key factor in performance of Carusorb<sup>®</sup> 200 is its large surface area and pore volume which allows for continuing effectiveness despite buildup of a sulfur-containing residue.

Carusorb<sup>®</sup> 200 changes color from purple to gray-brown during reaction with all oxidizable materials. With sulfur compounds, the brown phase continues to react, changing color to an off-white. Since only small amounts of active components are needed for contaminant removal, the entire pellet must change color before it is deactivated. Measurement of contaminant levels in the filter effluent can also determine the need for Carusorb<sup>®</sup> 200 replacement.

### PACKAGING AND HANDLING

Carusorb<sup>®</sup> 200 is packaged in 45 lb. net weight plastic pails and 50 lb. net weight corrugated boxes. Super sacks having a net weight of 1,000 lb. are also available. Carusorb<sup>®</sup> 200 should always be stored in its container, tightly sealed, and kept away from moisture to preserve its activity. Carusorb<sup>®</sup> 200 presents no health hazard when stored and handled properly.

Refer to our Material Safety Data Sheet for more detailed information on storage and handling.

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and the conditions of handling; use or misuse of the product are beyond our control. CARUS CHEMICAL COMPANY MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CARUS ALSO DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR CONFIRMING ACCURACY OF ANY INFORMATION INCLUDED HEREIN. Users should satisfy themselves that they are aware of all the current data relevant to their particular uses.

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 FLORENCE FILTER CORPORATION

### CARUSORB<sup>®</sup> 200 APPLICATIONS

While Carusorb<sup>®</sup> 200 will adequately control a large number of airborne contaminants, such as formaldehyde, ethylene and various malodors, it is specifically recommended for use against hydrogen sulfide, sulfur dioxide, mercaptans and similar materials. Carusorb<sup>®</sup> 100 is recommended for almost all other requirements. (See Carusorb<sup>®</sup> 100 information sheet.)

Air handling or ventilation equipment designed for areas housing computers and other electronic equipment often must include a provision for control of hydrogen sulfide. This ubiquitous gas is generated by many industrial processes and by wastewater treatment processes. It not only is noxious to human beings but, at very low levels, it also causes corrosion of delicate microcircuitry in process control equipment.

A partial listing of locations and applications often requiring hydrogen sulfide control, for both toxicological and anticorrosive reasons, indicates the widespread need for Carusorb<sup>®</sup> 200.

Computer Rooms	Pulp Mills
Control Rooms	Chemical Plants
Refineries	Petrochemical Plants
Printing Facilities	Steel Plants
Wastewater Treatment Plants	Foundries
Paper Mills	Electronics Facilities
Intake air for centrifugal compressors	

### TECHNICAL ASSISTANCE

Carus has a proven background in pollution control and will provide continuing service as long as Carusorb<sup>®</sup> 200 is in use.

Carus will provide all available information concerning your specific need, including recommendations concerning amounts needed, lifetimes and optimum operating conditions. When necessary, Carus will conduct laboratory evaluations which duplicate, as closely as possible, an intended application. These evaluations can be useful in feasibility determinations and in supplying equipment design parameters.

Carus ordinarily does not provide equipment or special containers for use with Carusorb<sup>®</sup> 200 but can recommend suppliers for the design and installation of air handling equipment for all applications.

*"Quality Air Filtration Products since 1971"*

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