



## CARULITE® 400 POWDER CATALYST DATA SHEET

The CARULITE® 400 catalyst is used to effectively destroy ozone or remove various gases and odors after being coated onto a metallic, ceramic, or cellulose substrate.

### CHEMICAL/PHYSICAL DATA

Formula	Type E (manganese dioxide catalyst)
pH, 10% solution	2.4-3.1
Appearance	Black/dark brown powder
Partical Size	3-8 micron
Surface Area	≥ 200 m <sup>2</sup> /g
Weight Loss	< 5% (3 hr @ 105° C)

### APPLICATIONS

- Office equipment ozone emissions
- Chemical processing emissions
- Indoor air quality
- Odor adsorbent

### CATALYST POISONS

When using the catalyst for ozone destruction, minimize or avoid contact with: sulfur compounds, halogenated compounds, hydrocarbons, heavy metals, NO<sub>x</sub> and silica, as these compounds will cause deactivation of the catalyst.

### HANDLING, STORAGE, & INCOMPATIBILITY

Although CARULITE 400 catalyst is not a hazardous substance, it should be handled with care. Protective equipment in handling should include safety glasses or goggles and rubber or plastic gloves. In cases where high dust exposure may exist, the use of NIOSH-MSHA dust respirator or an air-supplied respirator is advised.

The product should be stored in a cool, dry area in a closed container. Segregate from easily-oxidizable materials, peroxides, chlorates, and acids. Protect container against physical damage. Spillage should be collected and disposed of properly.

### DISPOSAL

Unused CARULITE 400 catalyst is not considered a hazardous waste under U.S. 40 CFR 261. Dispose of used CARULITE 400 catalyst in a landfill approved to accept chemical waste, after verifying that it is not contaminated with hazardous substances through usage.

### SHIPPING

CARULITE 400 catalyst is not regulated by the US DOT. CARULITE 400 Catalyst is shipped domestically as a Class 85 and internationally as HTS Code 3815.90.3000.

**Proper Shipping Name:** Manganese Dioxide Compound

### SHIPPING CONTAINERS

CARULITE 400 catalyst is shipped in 14 kg net weight pails and 90 kg net weight drums. Twenty-four pails can be shipped on a pallet for a net pallet weight of 336 kg and four drums can be shipped on a pallet or a net pallet weight of 360 kg.





## CARUS VALUE ADDED

### TECHNICAL SUPPORT

With our CARULITE® catalysts, we provide technical support on how to select the proper catalyst and how to properly use the catalyst to obtain optimal results. We also provide laboratory testing of customer catalyst samples in appropriate cases.

### CARUS

During its more than 100 year history, Carus' ongoing emphasis on research and development, technical support, and customer service has enabled the company to become the world leader in permanganate, manganese, oxidation, and base-metal catalyst technologies.



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