

CARULITE[®] 500 catalyst is used to effectively destroy ethylene oxide emissions resulting from sterilization of medical equipment and supplies. The catalyst converts toxic ethylene oxide, at low temperatures, to carbon dioxide and water.

PARTICLE SIZES AVAILABLE

8 x 14 mesh granular (2.4 mm x 1.4 mm)

CHEMICAL/PHYSICAL DATA

FormulaManganese dioxide/copper oxide catalystAppearanceBlack/dark brown granularBulk Density0.7-0.9 g/ccSurface Area $\geq 205.0 \text{ m}^2/\text{g}$ Weight Loss< 3%

SUGGESTED OPERATION CONDITIONS

- Minimum operating temperature 150° C (300° F)
- ≤ 10,000 hr ⁻¹ Gas Hourly Space Velocity

APPLICATIONS

- Commercial sterilizer off-gas
- Hospital sterilizer off-gas

CATALYST POISONS

Minimize or avoid contact with: sulfur compounds, halogenated compounds, hydrocarbons, heavy metals, and silica.

SHIPPING CONTAINERS

CARULITE 500 catalyst is shipped in 20 kg net weight pails or in 136 kg net weight drums.

SHIPPING

CARULITE 500 catalyst is not regulated by the U.S. DOT. CARULITE 500 catalyst is shipped domestically as Class 85 and internationally as HTS Code 3815.90.3000.

Proper Shipping Name: Manganese Dioxide Compound





HANDLING, STORAGE, & INCOMPATIBILITY

Although CARULITE[®] 500 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 500 catalyst is not considered a hazardous waste under U.S. 40 CFR 261. Dispose of used CARULITE 500 catalyst in a landfill approved to accept chemical waste, after verifying that it is not contaminated with hazardous substances through usage.

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.



Carus Headquarters USA

315 Fifth Street | Peru, IL 61354 | Tel +1 (815) 223-1500 | 1(800) 435-6856 | Fax +1 (815) 224-6697 carusllc.com | salesmkt@carusllc.com

Carus Europe Calle Rosal 4, 1-B | Oviedo, Spain 33009 | Tel +34.985.785.513 | Fax +34.985.785.510

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 makes no warranty, either expressed 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 current data relevant to their particular use(s).

Carus and Design and CARULITE[®] are registered service marks of Carus. Responsible Care[®] is a registered service mark of the American <u>Chemistry Council</u>.

