CARULITE® 300 catalyst is used to effectively destroy carbon monoxide in compressed breathing air, respirators, escape masks, and in cryogenic gas purification.

PARTICLE SIZES AVAILABLE
4 x 8 mesh granular (4.8 mm x 2.4 mm)
6 x 12 mesh granular (3.35 mm x 1.7 mm)
8 x 14 mesh granular (2.4 mm x 1.4 mm)
10 x 16 mesh granular (2 mm x 1.2 mm)
12 x 20 mesh granular (1.7 mm x 0.8 mm)

CHEMICAL/PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>Manganese dioxide/copper oxide catalyst</td>
</tr>
<tr>
<td>Appearance</td>
<td>Black/dark brown granular</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>0.72-1.0 g/cc</td>
</tr>
<tr>
<td>Surface Area</td>
<td>≥ 200 m²/g</td>
</tr>
<tr>
<td>Weight Loss</td>
<td>&lt; 1%</td>
</tr>
</tbody>
</table>

SUGGESTED OPERATING CONDITIONS
- Moisture free air (-40º C dew point)
- Vertically-oriented vessel with top-down air flow
- ≤ 15,000 hr⁻¹ Gas Hourly Space Velocity

APPLICATIONS
- Compressed breathing air purification
- Escape masks
- Respirators
- Cryogenic gas purification

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

HANDLING, STORAGE, AND INCOMPATIBILITY
Although CARULITE 300 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 300 catalyst is not considered a hazardous waste under U.S. 40 CFR 261. Dispose of used CARULITE 300 catalyst in a landfill approved to accept chemical waste, after verifying that it is not contaminated with hazardous substances through usage.

SHIPPING
CARULITE 300 catalyst is not regulated by the U.S. DOT. CARULITE 300 catalyst is shipped domestically as Class 85 and internationally as HTS Code 3815.90.3000.

Proper Shipping Name: Manganese Dioxide Compound

CARUS VALUE ADDED
LABORATORY SUPPORT
Carus Corporation has technical assistance available to its potential and current customers to answer questions, evaluate application alternatives or perform laboratory testing. Our laboratory capabilities include: catalyst analysis, performance testing, process evaluations, and analytical services.

TECHNICAL SERVICES
As an integral part of our technical support, Carus provides in-house and on-site assistance. We offer full application services, including technical expertise, design recommendations, and follow-up support.

CARUS CORPORATION
For over 98 years, our dedication to research and development, technical support, and customer service has enabled Carus to become the world leader in permanganate, manganese, and catalyst oxidation technologies. Call Carus for assistance with specific applications.