



OQ PRODUCT HANDLING GUIDE

Butyric Acid CAS # 107-92-6



Butyric Acid is a colorless liquid with a putrid odor. It is soluble in water and most common organic solvents. Butyric Acid is stable under recommended storage conditions. Butyric Acid will burn when heated or exposed to an ignition source.

Butyric Acid is available from OQ in the following packages:

- UN 1H1/Y1.9/150 55-Gallon High Density Polyethylene Drums

- DOT MC 307 or DOT 407 Tank Trucks
- DOT 111A60ALW1 Tank Cars or 111A100W6
- IMO 2 ISO Tank
- Ship Tank and Barge

Storage

| | |
|-------------------------|---------------------------------|
| Recommended Blanketing | Air ^{1,2} |
| Recommended Temperature | Ambient |
| Recommended Pressure | Atmospheric |
| Bulk Quantities | Outside, detached tanks |
| Small Containers | Cool, dry, well ventilated area |

Handling

- Thoroughly review Safety Data Sheet before handling product.
- Keep containers closed when not in use.
- Open containers slowly to allow any excess pressure to vent.
- Keep away from heat, sparks, flame, or other sources of ignition.

- Protect small containers from physical damage.
- Use proper electrical grounding and bonding procedures when loading, unloading, and transferring.¹
- Refer to the OQ Safety Data Sheet for more information on materials to avoid.

- Use spark-resistant tools.
- Electrical equipment and circuits in all storage and handling areas must conform to requirements of national electrical code (Articles 500 and 501) for hazardous location.

See the National Fire Protection Agency (NFPA) #30 "Flammable and Combustible Liquids Code" and consult with qualified fire protection specialists to determine specific storage tank design requirements. Refer to the OQ Safety Data Sheet for more specific health and environmental

information and refer to the OQ Product Descriptions for additional physical properties and general product information. Safety Data Sheet and Product Descriptions for Butyric Acid are available through your OQ sales representative.

1. Refer to NFPA #77 "Static Electricity" for proper electrical grounding procedures.
2. See the National Fire Protection Agency (NFPA) #30 "Flammable and Combustible Liquids Code" and consult with qualified fire protection specialists to determine specific storage tank design requirements. Domestic Shipping Information

This information is based on our present state of knowledge and shall be intended to provide general notes on our products and their field of application. It shall therefore not be construed as guaranteeing specific characteristics of the products described and/or their suitability for a particular application. Any existing industrial property rights shall be observed. The quality of our products is warranted under our General Conditions of Sale.

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Butyric Acid

CAS # 107-92-6

Materials of Construction for Storage and Transportation

| Item | Recommended | Acceptable |
|-------------------------|--|-----------------------|
| Tank | Stainless Steel ¹ | - |
| Piping | Stainless Steel ¹ | - |
| Valves | Stainless Steel ¹ | - |
| Pumps | Stainless Steel ¹ | - |
| Relief Valves | Stainless Steel ¹ | - |
| Gaskets | Glass Filled PTFE ⁴ | PTFE ⁴ |
| Pump Seals ² | Single mechanical seal: Stainless steel/Hastelloy C-276 metallic components ³ , Kalrez O-rings | - |
| Valve Packing | PTFE ⁴ | Graphite |
| Pipe End Connections | Welded and flanged system | - |
| Heat Exchanger | Product Side: Stainless Steel ¹ | - |
| Hoses | Stainless Steel ¹ | - |
| Tank Truck | Stainless Steel ¹ | Aluminum ⁵ |
| Tank Car | Stainless Steel ¹ | Aluminum ⁵ |
| ISO Tank | Stainless Steel ¹ | - |
| Barge | Stainless Steel ¹ | - |
| Ship Tank | Stainless Steel ¹ | - |

1. Type 304 or 316 Stainless Steel.
2. May need to consider double or tandem seal arrangement for odor control.
3. Use Alloy-C-276 seal components for long service life.
4. Polytetrafluoroethylene.
5. Use 3000, 5000, 6000 series Aluminum when the temperature does not exceed 120°F (49°C).

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