

# OXEA PRODUCT HANDLING GUIDE



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## Neopentyl Glycol, 90% in water

CAS # 126-30-7

90% Neopentyl Glycol is a clear, colorless liquid slurry with no odor. It is highly reactive yet thermally stable, and it will not polymerize.

90% Neopentyl Glycol is available from OXEA in the following packages:

- DOT MC 307 or DOT 407 Tank Trucks
- Tank Car 111A100W1

### Storage

Recommended Blanketing	Air <sup>1,2</sup> , or Dry Nitrogen <sup>1,2,3</sup>
Recommended Temperature	145-165°F (62.8- 73.9°C)
Recommended Pressure	Atmospheric
Bulk Quantities	Outside or detached tanks
Small Containers	Cool, dry, well ventilated area

### Handling

- Thoroughly review Material 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.<sup>1</sup>
- Refer to the OXEA Material 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.
- To avoid crystallization of the product, it must be kept above 95°F.

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 OXEA Material Safety Data Sheet for more specific health and environmental

information and refer to the OXEA Product Descriptions for additional physical properties and general product information. Material Safety Data Sheet and Product Descriptions for TCD Alcohol DM are available through your OXEA 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.
3. Blanketing may be used to retain quality in long-term storage conditions.

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### Materials of Construction for Storage and Transportation

Item	Recommended	Acceptable
Tank	Stainless Steel <sup>1</sup>	Lined Carbon Steel <sup>2</sup> ,
Piping	Stainless Steel <sup>1</sup>	-
Valves	Stainless Steel <sup>1</sup>	-
Pumps <sup>3</sup>	Stainless Steel <sup>1</sup>	-
Relief Valves	Stainless Steel <sup>1</sup>	-
Gaskets	Glass Filled PTFE <sup>4</sup>	PTFE <sup>4</sup>
Pump Seals	Single mechanical seal: Stainless steel/Hastelloy C-276 metallic components, Kalrez O-rings	-
Valve Packing	PTFE <sup>4</sup>	Braided PTFE <sup>4</sup>
Pipe End Connections	Welded and flanged system	Threaded with PTFE <sup>4</sup> tape thread lubricant
Heat Exchanger	Product Side: Stainless Steel <sup>1</sup>	-
Hoses	Stainless Steel <sup>1</sup>	Butyl Rubber
Tank Truck	Stainless Steel <sup>1</sup>	-
Tank Car	Lined Carbon Steel <sup>2</sup>	Stainless Steel <sup>1</sup>

1. Type 304 or 316 Stainless Steel.

2. Lining refers to a high baked phenolic.

3. Pumps should be designed to handle higher viscosities with winter temperatures.

4. Polytetrafluoroethylene.

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

PH-043-90-10 07/15

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