

MEG (912021): Storage and Handling Guidelines

Product Description

MEG (Mono Ethylene Glycol, 20–99.5%) is a clear, colorless, low-volatility glycol supplied as concentrated product or as a pre-mixed water/glycol solution. It is used in marine and offshore applications as an antifreeze and heat transfer fluid in engine cooling and heating systems, in glycol-water loops on FSRUs and LNG regasification units, and for gas hydrate inhibition on FPSOs. Its primary function is to protect systems against freezing and overheating and to keep critical equipment running reliably.

Storage Recommendations

1. **Storage Conditions:** Store in a cool, dry and well-ventilated area, away from strong oxidizing agents, strong acids and incompatible substances.
2. **Temperature:**
 - o Maintain storage temperature between **0°C and 40°C** (32°F – 104°F).
 - o Avoid prolonged exposure to high temperatures, which can cause product oxidation and acid formation.
3. **Avoid Contamination:** Keep away from direct sunlight and heat sources. MEG is hygroscopic and absorbs moisture from the air, so keep containers closed when not in use.
4. **Labelling and Sealing:** Ensure all containers are properly labelled with product name and concentration, sealed tightly and stored upright to prevent leaks.
5. **Materials of Construction:** Use stainless steel (304/316), HDPE or polypropylene tanks and transfer equipment. Do not use galvanized (zinc-coated) equipment for transfer or storage.
6. **Ventilation:** Ensure adequate ventilation, particularly where the product is heated or may form mist.

Handling Instructions

1. **Protective Gear:** Use appropriate personal protective equipment (PPE) when handling MEG, including chemical-resistant gloves (nitrile or butyl rubber) and safety goggles. Do not eat, drink or smoke in handling areas. MEG is harmful if swallowed.
2. **Spill Management:** In case of spills or leaks, contain the area and clean with absorbent materials. Rinse affected surfaces with water. Avoid direct contact with skin and eyes. Do not discharge to drains or the sea; dispose of waste in line with local and MARPOL regulations. Use closed systems or proper pumps to transfer the product.
3. **Avoid Mixing:** Do not mix MEG with other substances or other glycol types unless approved by the manufacturer. When diluting, use demineralized or distilled water only.
4. **Compatibility:** Ensure compatibility with cooling, heating, regasification or hydrate inhibition systems and follow equipment manufacturer guidelines for concentration and usage.
5. **Shelf Life:** The recommended shelf life of MEG is 24 months from the date of manufacture when stored in sealed containers under the recommended conditions.

Compliance

Always refer to the product's **Safety Data Sheet (SDS)** for detailed hazard, first aid and emergency response information.

For further assistance or clarification, please contact our technical support team.