**MOON OU Kosher, USP*/FCC**  
*For excipient use only*

**Description:**  
CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH  

Moon OU Kosher, Glycerin 99.7% USP*/FCC  
*For excipient use only*  
CAS#: 56-81-5

**PHYSICAL PROPERTIES**  
(all properties @ 22°C (72°F), 760mmHg unless stated)

- Equivalent Weight: 246  
- Flash Point >198.9°C (390°F)  
- Specific Gravity: 1.26  
- Melting Point: 18°C  
- Viscosity: ~1150 cp @ 20°C  
- Boiling Point: 290°C  
- Taste: Tangy sweet  

Stable and soluble in water and miscible with ethanol, slightly soluble with acetone.

**GENERAL INFORMATION**

**Regulatory Compliance:**  
- Designated as Kosher by the Orthodox Union  
- Complies with USP- United States Pharmacopeias  
- Complies with FCC- Food Chemicals Codex  
- Complies with IPEC- International Pharmaceutical Excipients Council

**Application Uses:**  
End-use applications for Moon OU Glycerin include pharmaceutical applications (for excipient use only), food and beverage ingredient, sweetener, personal care items such as tooth pastes, polyether polyols, alkyl resins, explosives, humectants, coatings, pet foods, lubricants, flexible foams, solid fuel, anti-icers, and soaps.

**Derivation/Allergen/BSE & TSE/Microbial:**  
Our Moon OU Glycerin is produced at P&G Chemicals' Cincinnati plant. It is manufactured from vegetable oils.  
- No preservatives or additives are present.  
- No allergens are present from the following sources: milk, egg, fish, crustacean shellfish, tree nuts, peanuts, wheat, sulfites, sesame seeds, aspartame, gluten source, monosodium glutamate, mustard seed or soybean  
- Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE) are not a concern with Moon OU glycerin.  
- Our manufacturing process contains a distillation step (reaching temperatures of 300 - 345°F) which is self-sterilizing, destroying potential microbes. Moreover, glycerin contains low available moisture and has inherent antimicrobial properties as a concentrated solution.

**Shelf Life**  
We expect the shelf life of Moon OU Glycerin USP/FCC to be approximately 2 years if it is kept under the recommended storage and handling conditions. If the product has not been used within 2 years, we recommend to test the product for key specifications. No specific data has been collected for the shelf life of opened containers of glycerin. Since glycerin is hygroscopic, it can be expected that moisture content would increase upon extended exposure to air.

**Storage and Handling (recommended)**  
- **Handling Temp Min-Max:** 35-52°C (95-125°F)  
- **Sensitive Properties:** Odor, Moisture, Color, FA&E, RCS  
- **Max Steam, psig:** 10 psig for storage, 30 psig for railcar  
- **Nitrogen Blanket:** YES (>1 month)  
- **Load out filter:** 5 micron  
- **Rail Car or Tank Truck:** Latchet, stainless, aluminum or Food Grade lining  
- **Agitation/Recirculation:** Yes  
- **Storage Tank:** Stainless Steel or lined with Calcite 252 or Placate 9570  
- **Pumps and Lines:** Stainless Steel or lined with Calcite 252 or Placate 9570

**Note:** Heating should not exceed the max handling temperature of (52°C) 125°F

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**IMPORTANT NOTE** This technical product information and suggestions for use, while believed to be accurate and reliable, is given without guarantee or warranty of any kind expressed or implied. Purchaser assumes all risk in acting on this information provided by Procter & Gamble representatives. Individual requirements vary, and each purchaser is urged to perform their own tests, experiments and investigations in the use of Procter and Gamble products and for purposes of determining compliance with applicable Federal, State and local laws and regulations. Nothing contained herein shall be construed as a recommendation to use any product in connection with existing patents covering any material or its use. Moreover, no license is to be implied under any Procter & Gamble patents relating to uses of the above.

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