PRODUCT INFORMATION SHEET

CE-1295, Methyl Laurate (Methyl Dodecanoate)

**DESCRIPTION**

\[
\text{R} - \text{OCH}_3
\]

CAS Number: 111-82-0

**PHYSICAL PROPERTIES:**

(All properties @ 760mmHg unless stated)

- Specific Gravity: 0.9 at 20°C (68°F)
- Vapor Pressure: <1 mmHg at 20°C (68°F)
- Melting Point: 5°C (41°F)
- Viscosity: 4cp at 20°C (68°F)
- Boiling Point: >204°C (>399°F)

**PRODUCT NOTES**

Is comprised of Methyl Laurate (C12, 95%); 'R' in the structural diagram above represents a saturated alky chain of carbon atoms equal to 11. Not including the methyl ester group, there are an even number of carbon atoms in the molecule. It is a clear liquid under ambient conditions with a musty odor.

Insoluble in water under ambient conditions, but suitable solvents include ethyl ether, and mineral oil. May attack, swell and soften rubber and plastic. Concrete swells and deteriorates with contact. Glycerine can settle out in storage.

**GENERAL INFORMATION**

- Potential intermediate and end use applications include soapmaking, agriculture, amides, chlorinated lubricants, cutting oils, defoamers, gear oils, isopropyl esters, jet lubricants, methyl ester sulfonates, plasticizers, PEG Esters, rolling oils, sulfurized lubricants, metalworking fluids, production of plasticizer alcohols, emulsifiers, stabilizers, resins, flavorings, fracking fluids, and solvents for inks, paint removal, and other applications.

**APPLICATION USES**

- All of our brands are produced in P&G Chemicals’ global network. They are manufactured from naturally occurring vegetable oils.
- Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE) are not a concern.
- No gluten/wheat, corn, dairy, egg, fish/shellfish, sulfites, yeast, starch, MSG, peanut, other nut, rice, potential allergens are present. No preservatives or additives are present.
- At the low vacuum and high temperature at which our process operates, our products are not micro-susceptible.

**RETTEST DATE**

Stability is affected by how a product is stored. We expect the product to be stable if it is kept under the recommended Storage and Handling conditions. We recommend retesting the product for Sensitive Properties every 24 months. (Information listed in Storage and Handling section)

**STORAGE AND HANDLING (recommended)**

- Handling Temp Min-Max: 16-32°C (60-90°F)
- Agitation/Recirculation: Required only when heating
- Nitrogen Blanket: Not necessary
- Load out filter (reco): 5 micron
- Sensitive Properties: Color, Moisture, Acid Value
- Railcar or Tank Truck: Carbon Steel
- Storage Tank: Carbon Steel
- Pumps and Lines: Carbon Steel

For further details, or samples of this material or other P&G Chemicals products, visit our website: [www.pgchemicals.com](http://www.pgchemicals.com)

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