Technical Data Sheet

January 2013

**Average Molecular Weight**
591

**Product Number**
56808831

**CAS registry number**
68130-50-7

**Molecular Structure**

\[
\begin{align*}
& R' \quad O \quad R \quad O \quad \text{where } R, R' \text{ and } R'' \text{ can be } \\
& C_8H_{17} \text{ or } C_{10}H_{21}
\end{align*}
\]

**Description**
Palatinol® 810TM, 8-10 Linear Trimellitate, is a primary plasticizer for polyvinyl chloride resins and copolymers. When compared to TOTM and TINTM, formulations made with Palatinol® 810TM exhibit superior low temperature flexibility and resistance to oxidative degradation at high temperatures. This trimellitate offers a unique combination of easy processability, a high degree of permanence and good compatibility.

**Applications**
Palatinol® 810TM is suggested for such applications as wire and cable insulation, refrigerator gasketing, where lacquer mar resistance is a factor, and very low fog automotive components. Palatinol® 810TM is available stabilized (as Palatinol 810TM-I) for electrical applications and where otherwise required.

**Safety**
Palatinol® 810TM does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. If eye contact occurs, wash with flowing water and contact physician. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation. Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

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**Product Specifications**

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
</table>

| Specific Gravity @ 25°/25°C | 0.970-0.978 | ASTM D-4052 |
| Ester content, % by weight (minimum) | 99.0 | ASTM D-3465 |
| Acid Number, mg KOH/gm (% maximum) | 0.1 | ASTM D-1045 |
| Water, % by weight (maximum) | 0.1 | ASTM E-1064 |
| Color, Pt-Co units (APHA, maximum) | 200 | ASTM D-5386 |
| Suspended matter | COLSFFM* | Visual |

*Clear Oily Liquid Substantially Free of Foreign Material

**Typical Physical Properties**

<table>
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<th>Property</th>
<th>Value</th>
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<td>Apparent specific gravity @ 20°/20°C</td>
<td>0.975</td>
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<td>Pour point, °C</td>
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<tr>
<td>Viscosity @ 25°C, cP</td>
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<td>Flash point (COC), °C</td>
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Packaging

Palatinol® 810TM is available in bulk, tank trucks or rail cars.

Storage & handling

Palatinol® 810TM has an almost unlimited shelf life when properly stored in closed containers.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

Contact Information:

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Fax: 281-884-4302

World Wide Web:
http://www.basf.com
http://www.basf.com/plasticizers/index.html

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