UCAR™ N-PROPYL PROPIONATE
Propyl Propanoate
Propanoic Acid, Propyl Ester

\[ \text{CH}_3\text{CH}_2\text{COOCH}_2\text{CH}_2\text{CH}_3 \]

**Description**

UCAR N-PROPYL PROPIONATE is a fast evaporating solvent. Its linear structure contributes to effective viscosity reduction and improves solvent diffusion from coating films.

**Typical Physical Properties**

These properties are typical but do not constitute specifications.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>116.16</td>
</tr>
<tr>
<td>Relative Evaporation Rate nBuAc=1</td>
<td>1.2</td>
</tr>
<tr>
<td>Vapor Pressure at 20°C, mmHg</td>
<td>10.7</td>
</tr>
<tr>
<td>Density at 20°C lb/gal</td>
<td>7.34</td>
</tr>
<tr>
<td>Specific Gravity at 20/20°C</td>
<td>0.881</td>
</tr>
<tr>
<td>Viscosity at 20°C cP</td>
<td>0.7</td>
</tr>
<tr>
<td>Surface Tension</td>
<td></td>
</tr>
<tr>
<td>(dynes/cm at 20°C)</td>
<td>24.7</td>
</tr>
<tr>
<td>(dynes/cm at 25°C)</td>
<td>-</td>
</tr>
<tr>
<td>Hansen Solubility Parameters, [cal/cm^3]^{1/2}</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8.6</td>
</tr>
<tr>
<td>Non-Polar</td>
<td>7.6</td>
</tr>
<tr>
<td>Polar</td>
<td>1.8</td>
</tr>
<tr>
<td>Hydrogen Bonding</td>
<td>3.6</td>
</tr>
<tr>
<td>Boiling Point, °C at 760mm Hg</td>
<td>122.4</td>
</tr>
<tr>
<td>Solubility at 20°C</td>
<td></td>
</tr>
<tr>
<td>%Wt In Water</td>
<td>0.5</td>
</tr>
<tr>
<td>%Wt Water in</td>
<td></td>
</tr>
<tr>
<td>Closed Cup Flash Point °F</td>
<td>75</td>
</tr>
<tr>
<td>SARA 313 (see note 1†)</td>
<td>N</td>
</tr>
<tr>
<td>Hazardous Air Pollutant (see note 2††)</td>
<td>N</td>
</tr>
<tr>
<td>Electrical Resistivity MΩ</td>
<td>&gt;1000</td>
</tr>
</tbody>
</table>

† Note 1: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 313
†† Note 2: Hazardous Air Pollutants listed under Title III of the Clean Air Act

**Classification/Registry Numbers**

<table>
<thead>
<tr>
<th>Classification/Registry Numbers</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number</td>
<td>106-36-5</td>
</tr>
<tr>
<td>EINECS</td>
<td>203-389-7</td>
</tr>
</tbody>
</table>
Features

- Non-HAP (Hazardous Air Pollutant) Solvent
- Stronger solvency than acetate esters in high solids coatings
- Proper volatility for high solids coatings and printing inks applications
- Linear structure giving faster diffusion through coating and ink films
- High electrical resistivity for electrostatically sprayed coatings
- Lower odor values than acetates
- Fast evaporation
- Possible excellent replacement for xylene

Applications

- Automotive refinish
- OEM coatings
- Appliance coatings
- Printing inks
- Polymerization solvent

How supplied

<table>
<thead>
<tr>
<th>Region</th>
<th>Packaging</th>
<th>Transport Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe/Africa</td>
<td>Bulk or Drum</td>
<td>Isotank/Tank Truck/Package Truck/Marine Vessel</td>
</tr>
<tr>
<td>Latin America</td>
<td>Bulk or Drum</td>
<td>Tank Truck/Package Truck, (Mexico Only)</td>
</tr>
<tr>
<td>North America</td>
<td>Drum</td>
<td>Tank Truck/Package Truck/Railcar/Marine Vessel</td>
</tr>
</tbody>
</table>

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

NOTICE: No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer’s use and for ensuring that Customer’s workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow. October 2002
Form No.: 327-00034-0308