Uniplex® DBS
Plastic Additives / Plasticizer

Description
Uniplex DBS is an efficient, low-temperature-resistant plasticizer for a variety of polymers, namely cellulose esters, polyvinyl butyral, polyvinyl chloride, polyvinylidene chloride, polystyrene, and rubber.

Chemical composition
Di-butyl Sebacate

CAS Registry Number
109-43-3

Supply form
Clear liquid

Typical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay</td>
<td>98 min.</td>
<td>%</td>
<td>Gas chromatography as esters</td>
</tr>
<tr>
<td>Hazen colour value</td>
<td>40 max.</td>
<td>--</td>
<td>Hazen</td>
</tr>
<tr>
<td>Water content</td>
<td>0.1 max.</td>
<td>%</td>
<td>Karl Fischer</td>
</tr>
<tr>
<td>Acidity</td>
<td>0.1 max.</td>
<td>%</td>
<td>Titration</td>
</tr>
<tr>
<td>Dissolution temperature</td>
<td>approx. 130</td>
<td>°C</td>
<td>acc. to DIN 53408</td>
</tr>
<tr>
<td>Refractive Index nD20</td>
<td>approx. 1.435</td>
<td>--</td>
<td>Refractometer</td>
</tr>
<tr>
<td>Viscosity, 20°C</td>
<td>approx. 15</td>
<td>mPas</td>
<td>Viscosimeter</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>approx. 0.937</td>
<td>--</td>
<td>Gravimetric</td>
</tr>
<tr>
<td>Melting point</td>
<td>approx. -11</td>
<td>°C</td>
<td>Thermal</td>
</tr>
</tbody>
</table>

The analytical data are general guide values.

Storage
If correctly stored and kept in the original sealed package, the shelf life is at least 12 months.

Packaging
Drums
General properties
Uniplex DBS has excellent compatibility with a range of polymers with superior properties at low temperatures. It has a low viscosity, enabling the manufacture of highly filled pigment batches. Uniplex DBS is an excellent choice as a replacement for Dibutyl Phthalate in a number of applications, inclusive PVC where it offers a good gelling capacity. Uniplex DBS is used when regulations and recommendations governing food contacting applications need to be met. More information is available on request.

Applications
Uniplex DBS is a general purpose plasticizer for variety of plastics, namely cellulose esters (cellulose acetate butyrate, cellulose acetate propionate, ethyl cellulose), polyvinyl butyral, polyvinyl chloride, polyvinylidene chloride, polystyrene, and synthetic rubbers (especially nitrile and chloroprene). It can be used as a dispersant for pigments in various plastics.

Handling & Safety
A receiving inspection is recommended. The product should be stored in its tightly sealed original container in a cool, dry place. Once opened, containers should be resealed tightly after removal of product. Consult material safety data sheet (MSDS) for additional handling information on Uniplex DBS.

® = registered trade mark

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