CARADOL SA36-23 is an activated propylene oxide/ethylene oxide based polyether polyol. It is especially suitable for the production of filled polyols containing isocyanate-alkanolamine suspensions. These modified polyols can be used with CARADATE 80 for the production of high resilience (HR) slabstock foams and combustion modified high resilience (CMHR) foams. It is also suitable for the production of high resilience (HR) slabstock and cold cure moulding foams in combination with filled polyols.

CARADOL SA36-23 is especially suited for the manufacture of foams used in applications where low VOC/FOG content is an essential requirement. It has a wide processing tolerance over a normal density and hardness range.

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNIT</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td>clear liquid</td>
<td></td>
</tr>
<tr>
<td>Colour Hazen</td>
<td>ASTM D1209</td>
<td>mg KOH/g</td>
<td>15</td>
</tr>
<tr>
<td>Hydroxyl value</td>
<td>ASTM D4274C</td>
<td>mg KOH/g</td>
<td>36</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>ASTM D4052</td>
<td>kg/l</td>
<td>1.025</td>
</tr>
<tr>
<td>Water content</td>
<td>ASTM D4672</td>
<td>% m/m</td>
<td>0.05</td>
</tr>
<tr>
<td>Total acidity</td>
<td>ASTM D4662</td>
<td>mg KOH/g</td>
<td>0.03</td>
</tr>
<tr>
<td>Flash point</td>
<td>ASTM D93</td>
<td>°C</td>
<td>&gt; 200</td>
</tr>
</tbody>
</table>

**VISCOSITY/TEMPERATURE CHARACTERISTICS**

The above typical physical properties are published here as a guide to potential users of the product. A sales specification is published separately.
CARADOL SA36-23
URETHANE CHEMICALS FOR SLABSTOCK APPLICATIONS

TEST METHODS

STORAGE AND HANDLING
CARADOL SA36-23 is slightly hygroscopic and must be stored under conditions so that contamination with water and absorption of moisture are prevented. Contact with copper, copper alloys or zinc must be avoided.

The storage temperature of CARADOL SA36-23 is not critical, in that there will be no hazardous conditions created by the storage of the product at any ambient temperature likely to be encountered. It should be noted however that a normal storage temperature, ensuring optimum processing conditions when using the product, is between 20°C and 25°C and that storage at low temperatures may result in the product viscosity being too high for transfer from the storage container with the pumps available.

CARADOL SA36-23 is a stable product and its processing performance is not expected to deteriorate significantly with time providing it is stored as below. As good industrial practice however it is recommended that it is not stored for periods longer than 2 years.

Bulk
Tanks should be of stainless steel or of mild steel, free of mill-scale or rust and maintained in a rust-free condition. When desired, the latter can be lined with an epoxide resin paint or zinc silicate paint approved for this service. Small tanks must be fitted with silica gel breathers, inspected and regenerated at regular intervals; large tanks (of volumes greater than 1000 m³) should be fitted for blanketing with dry nitrogen. Heating facilities may be necessary and where this is the case, care should be taken to ensure that heating coil skin temperatures do not exceed 100°C.

Lines should be of stainless steel or mild steel maintained in a rust-free condition. Trace heating may be necessary in cold climates. Hoses should be of polypropylene, stainless steel or wire bound canvas.

Drums
CARADOL SA36-23 should be stored in dry conditions away from direct sources of heat, preferably in the unopened original containers. Opened drums must be reclosed tightly immediately after drawing-off material.

HAZARD IDENTIFICATION
Low order of acute toxicity by the oral or precutaneous routes, neither irritating nor sensitising to the skin. Slightly irritating to the eyes.

This product is not in the ‘flammable’ range, but will burn.

Before handling the product refer to the Safety Data Sheet.

PRODUCT CODE
U311F

DISCLAIMER
CARADOL is a Shell trade mark.

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