Lupranate® 277 Isocyanate

Lupranate 277 Isocyanate is a medium viscosity polymeric MDI isocyanate.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>dark liquid</td>
</tr>
<tr>
<td>NCO content, wt%</td>
<td>30.6-31.6</td>
</tr>
<tr>
<td>Viscosity @ 25°C, cps</td>
<td>300-400</td>
</tr>
<tr>
<td>Flash point, °C (COC)</td>
<td>&gt; 200</td>
</tr>
<tr>
<td>Density @25°C, g/cm³</td>
<td>1.22</td>
</tr>
<tr>
<td>Initial boiling point, 5mm Hg, °C</td>
<td>190</td>
</tr>
<tr>
<td>Vapor Pressure @25°C, mm Hg</td>
<td>0.00001</td>
</tr>
</tbody>
</table>

Storage

Lupranate 277 Isocyanate is supplied in tank trucks and drums. Once a container has been opened, care should be taken to exclude moisture. The most favorable temperature for storage of this product is 25-35°C. If stored at higher temperatures, or if moisture is not excluded, an undesirable increase in viscosity will occur. Below 15 °C crystals may form and settle out, which can alter the performance of the product. The solid crystals contain pure MDI and in this solid form may exhibit the same crystallization characteristics as pure MDI. Unless prompt action is taken to melt the product, subsequent dimerization will proceed and may deteriorate the clarity and assay of the product. Melting the crystals is ideally done by rolling the drum in a hot air oven at 60 to 80°C. Drum contents should not be heated above 60°C to minimize dimer formation.

Warning

Excessive or prolonged heating at 60-80°C may cause dangerous pressure build-up. Heating by electrical tape is not recommended due to the danger of local over heating. Melting in a water bath is not recommended because of potential danger of the isocyanate reacting with water in case of drum leakage. Rolling the drum in atmospheric steam is an alternate procedure that can be used providing care is taken to ensure that the drum does not leak. The shelf life of Lupranate 277 Isocyanate six months if the temperature is maintained at 25 to 32°C and moisture is excluded. These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

In case of chemical emergency:

Call CHEMTREC 800-424-9300 or BASF (800-832-HELP) day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. Outside the U.S., call (703) 527-3887.

Attention:

This product is sold solely for use by industrial institutions. Refer to our Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product. An MSDS as well as additional information on BASF urethane chemicals may be obtained by telephoning BASF Corporation, Urethane Customer Service at (877) 297-3322 or faxing (734) 324-6866.

Important:

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