WANNATE® 8678

Application
WANNATE® 8678 is a modified diphenylmethane diisocyanate (MDI) for polyurethane elastomer and shoe sole. It is a light yellow liquid at room temperature.

Typical physical and chemical properties

<table>
<thead>
<tr>
<th>Name</th>
<th>WANNATE® 8678</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>light yellow liquid</td>
</tr>
<tr>
<td>Isocyanate equivalent weight</td>
<td>223</td>
</tr>
<tr>
<td>NCO content, %</td>
<td>18.9</td>
</tr>
<tr>
<td>Viscosity at 25°C, mPa.s</td>
<td>1100</td>
</tr>
<tr>
<td>Specific gravity at 25°C</td>
<td>1.20</td>
</tr>
<tr>
<td>Acidity (as HCL), %</td>
<td>&lt;0.05</td>
</tr>
</tbody>
</table>

*These values provide general information and are not part of the product specification.

Package
210 liters iron drums, 240±1kg/Drum

Storage
Since WANNATE® 8678 is a reactive chemical, reaction with atmospheric moisture happens easily and leads to the formation of insoluble ureas and carbon dioxide gas, which can result in pressure build-up in closed containers and viscosity increase of the product. Containers must therefore be absolutely dry and carefully sealed after congested with nitrogen.

Containers of WANNATE® 8678 should be kept properly closed and stored indoors at ambient temperatures (25-35°C) in a well-ventilated area. Storage at low temperatures (below 20°C) may lead to some crystallization; this material must, therefore, be protected from frost. If crystallization does occur, the material should be heated to 70-80°C to melt it out, strictly prohibit to heat over at local part and should then be thoroughly agitated before use.

Shelf Life
Under recommended storage conditions, the shelf life of WANNATE® 8678 is six months. If the production is overdue, but it’s main physical and chemical properties in the guideline, may not effect on it’s using properties.

Safety
WANNATE® 8678 is of low toxicity by inhalation and skin absorption. The very low volatility of WANNATE® 8678 means that it should be of little hazard for brief exposures under normal conditions, e.g. in cases of small spillages. Nevertheless, WANNATE® 8678 is an isocyanate-based composition and should be of certain toxicity. It may cause mild eye irritation and slight skin irritation. It may pose problems of skin sensitization. WANNATE® 8678 has a Ceiling Threshold Limit Value, TLV(C) of 0.02ppm(0.2mg/M3). It is important to note, however, that a vapour hazard will arise if the material is heated to temperatures above 40°C, or if it is reacted in an unventilated space. Another hazard is the formation of air-borne droplets during spraying operations. Under such conditions, it is essential to wear a gas mask and a respirator since repeated inhalation of the vapour at levels above the TLV(C) could cause respiration sensitization.

Even under normal conditions, WANNATE® 8678 remains a reactive chemical and care should be taken when handling it to prevent its coming into contact with the skin and eyes. Suitable protective
clothing such as glove, protective spectacles and work suit should be worn. Splashes on the skin or in the eyes should be removed promptly by irrigation with clean water and the skin should be well washed with soap and water. Since WANNATE® 8678 is very easy to react with moisture and leads to the formation of carbon dioxide gas, containers must therefore be absolutely dry and sealed to protect from moisture and water. In case water splashes into the containers, be careful to avoid sealing it too tightly. It is important to leave holes to prevent containers from explosion.

**Declaration**
The data in this manual are provided as general information only. The guaranteed specifications please see the Quality Warranty or the contract. It is the user’s responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party’s action. Nor will we be responsible for any indirect damages while using our products. For more details, contact Market Department or technical service center.

For more information, please refer to our MSDS or contact our customer service center.

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