Cyclohexylamine

CHEMICAL FORMULA: C₆H₁₃N
CAS: 108-91-8

GENERAL CHARACTERISTICS
Cyclohexylamine is a clear, colourless or even yellow liquid with characteristic amine odour; very well soluble in water and organic solvents.
Density, kg/m³ 867
Flash point, (open cup) °C 5
Boiling point, °C 134
Explosion limits, % vol 0.52-21.7
Temperature limits of explosiveness, °C 5-85

SPECIFICATION

<table>
<thead>
<tr>
<th></th>
<th>% wt. min.</th>
<th>% wt. max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexylamine content</td>
<td>99.7</td>
<td>0.05</td>
</tr>
<tr>
<td>Light distillate</td>
<td>0.05</td>
<td>0.10</td>
</tr>
<tr>
<td>Cyclohexanole content</td>
<td>0.05</td>
<td>0.005</td>
</tr>
<tr>
<td>Aniline</td>
<td>0.005</td>
<td></td>
</tr>
<tr>
<td>Water content</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>Colour acc. to Hazen</td>
<td>max. 50</td>
<td></td>
</tr>
</tbody>
</table>

APPLICATION
Cyclohexylamine is used in rubber industry for the preparation of vulcanization accelerator CBS. Other application include manufacturing of artificial sweeteners (cyclamates), use in water treatment industry and specialty chemicals.

HEALTH HAZARD EFFECTS
Cyclohexylamine vapours irritate or burn the skin and mucous membranes. Absorption through the skin can cause vomiting and damage of the nervous system; it can bring about skin allergy.

DELIVERY SPECIFICATION
Delivery danger class: ADR class 8, Kemler/UN No. 83/2357
Delivery in rail tanks, road tank cars and/or in 200 l iron drums.

CONTACT PERSON
Václav Novák, MBA
Tel: +420 596 642 700
Fax: +420 596 642 702

9/20/2005