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### Table 1: The typical composition of RBC

<table>
<thead>
<tr>
<th>Resin component (typical monomers)</th>
<th>Filler component</th>
<th>Other common constituents</th>
</tr>
</thead>
<tbody>
<tr>
<td>• BisGMA (bis-phenol glycidyl di-methacrylate)</td>
<td>Inorganic quartz and silica particles (silanated)</td>
<td>• Camphorquinone - <strong>initiator</strong></td>
</tr>
<tr>
<td>• UDMA (urethane di-methacrylate)</td>
<td></td>
<td>• 4-dimethylaminobenzoic acid ethyl ester (DMABE) - <strong>accelerator</strong></td>
</tr>
<tr>
<td>• TEGDMA (tri-ethylene glycol di-methacrylate)</td>
<td></td>
<td>• 3,5-di-tert-butyl-4-hydroxytoluene (BHT) – <strong>inhibitor</strong></td>
</tr>
<tr>
<td>• HEMA (hydroxyethyl methacrylate)</td>
<td></td>
<td>• 2-hydroxy-4-methoxybenzophenone (HMBP) - <strong>photo-stabiliser</strong></td>
</tr>
</tbody>
</table>

*Figure 1: Dental amalgam restorations*
Figure 2: Dental resin-based composite MOD restoration

Figure 3: Waste single-use resin-based composite compules containing residual material
Figure 4: Waste particulates from CAD-CAM