Anti-fogging agent  
(PVC-Wrap)

1. COMPOSITION
Fatty acids, vegetable-oil, esters with 3, 3’-oxybis [1, 2-propanediol]

2. CHARACTERISTICS
Almax Series smells that occur after you apply the PVC wrap almost does not occur. In particular, this product has improved transparency and compatibility. The mechanism of anti-fogging agent is that migrates to the surface of the polymer and increases the surface tension of the polymer. Consequently, the surface tension of the polymer and the surface tension of the water droplet are equal so that the water droplet is spread into a continuous layer of water, which becomes visible.

3. STRENGTH

<table>
<thead>
<tr>
<th>PRODUCTS</th>
<th>STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almax-9222(J)</td>
<td>There is hardly no smell when applied to PVC wrap</td>
</tr>
<tr>
<td></td>
<td>Maximization of transparency and compatibility</td>
</tr>
<tr>
<td>Almax-9281</td>
<td>There is hardly no smell when applied to PVC wrap</td>
</tr>
<tr>
<td></td>
<td>Maximization of transparency and anti-fogging effect</td>
</tr>
<tr>
<td>Almax-9280</td>
<td>There is hardly no fume when applied to PVC wrap</td>
</tr>
<tr>
<td></td>
<td>Excellent anti-fogging effect and unwinding capability</td>
</tr>
<tr>
<td>Almax-9320</td>
<td>Improved unwinding capability of PVC wrap and it is compatible with</td>
</tr>
<tr>
<td></td>
<td>auto packing system. Highly compatible in packing vegetables especially</td>
</tr>
<tr>
<td></td>
<td>mushrooms to sustain its freshness</td>
</tr>
</tbody>
</table>

4. TECHNICAL DATA SHEET

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>Almax-9222(J)</th>
<th>Almax-9281</th>
<th>Almax-9280</th>
<th>Almax-9320</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Yellowish liquid</td>
<td>Yellowish liquid</td>
<td>Yellowish liquid</td>
<td>Dark Yellowish liquid</td>
</tr>
<tr>
<td>ACID VALUE (mg KOH/g)</td>
<td>1 max.</td>
<td>1 max.</td>
<td>1 max.</td>
<td>5 max.</td>
</tr>
<tr>
<td>CLOUD POINT (℃)</td>
<td>10</td>
<td>7</td>
<td>-10</td>
<td>21</td>
</tr>
<tr>
<td>VISCOSITY (CP. 30℃)</td>
<td>96</td>
<td>99</td>
<td>865</td>
<td>113</td>
</tr>
</tbody>
</table>
5. ANTI-FOGGING EFFECT

<table>
<thead>
<tr>
<th>Almax Series</th>
<th>Other company</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image 1]</td>
<td>![Image 2]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Almax-9320</th>
<th>Other anti-fogging agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image 3]</td>
<td>![Image 4]</td>
</tr>
<tr>
<td>0 day</td>
<td>after 2 weeks</td>
</tr>
<tr>
<td>![Image 5] Good</td>
<td>![Image 6] Bad(변색)</td>
</tr>
<tr>
<td>0 day</td>
<td>after 2 weeks</td>
</tr>
</tbody>
</table>

6. APPLICATION

<table>
<thead>
<tr>
<th>PVC wrap</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC RESIN(K Value 66)</td>
<td>100 phr</td>
</tr>
<tr>
<td>Primary Plasticizer</td>
<td>35 ~ 42 phr</td>
</tr>
<tr>
<td>Secondary Plasticizer</td>
<td>8 ~ 12 phr</td>
</tr>
<tr>
<td>Stabilizer</td>
<td>1.0 ~ 1.2 phr</td>
</tr>
<tr>
<td>Anti-fogging agent</td>
<td></td>
</tr>
<tr>
<td>Almax-9222(J)</td>
<td>1.5 ~ 2.0 phr max.</td>
</tr>
<tr>
<td>Almax-9320</td>
<td>2.4 phr min.</td>
</tr>
</tbody>
</table>

7. PACKING UNIT

- 200 KG Drum

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