Decaltal® Pic S
(formerly Bascal® S)

Auxiliary for the leather and fur industries

Decaltal Pic S can be used as a deliming agent and pickle acid for the leather industry and as a soaking and pickling auxiliary for the dressing of fur skins.

In the production of leather, Decaltal Pic S is chiefly used in conjunction with other deliming agents to intensify their effect, so that quicker penetration is achieved and pelts are delimed more evenly throughout the cross-section. The product also removes lime blasts. In addition, it is suitable for use as a pickle acid in short floats before chrome tanning.

In dressing fur skins, Decaltal Pic S is used in the soaking bath to counteract hairslip and in pickling to achieve light and soft skins.

Areas of application

<table>
<thead>
<tr>
<th>Leather</th>
<th>Deliming</th>
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<tbody>
<tr>
<td></td>
<td>Pickling</td>
</tr>
<tr>
<td>Fur skins</td>
<td>Soaking</td>
</tr>
<tr>
<td></td>
<td>Pickling</td>
</tr>
</tbody>
</table>

Composition

Mixture of weak, water-soluble aliphatic dicarboxylic acids with masking effect

Physical form

Greyish-white to yellowish flakes

Characteristics

- Iron content $< 3$ ppm
- Miscible in water in all proportions
- Forms soluble calcium and sodium salts readily
- Free of ammonium

The above figures are approximate. A detailed specification is available on request.

Storage

This product has a shelf life of at least one year if it is stored in its tightly sealed original packaging at temperatures between 0 °C and 40 °C. Bags should be tightly resealed each time material is taken from them, and their contents should be used up as soon as possible after they have been opened.
Properties

**Decaltal Pic S** in deliming:
- speeds up the process through the formation of calcium and sodium salts that dissolve especially readily,
- promotes the removal of lime that is chemically bound to the skin substance and is often apparent in the form of lime blasts,
- does not contribute to the ammonium load of the waste water.

**Decaltal Pic S** in pickling:
- markedly improves the exhaustion of chrome from the tan bath,
- enables a lower amount of chrome to be used,
- reduces the chrome pollution in the waste water,
- the leather becomes softer and fuller and has a tighter grain.

**Decaltal Pic S** in the dressing of fur skins:
- In the dressing of fur skins, during soaking in the slightly acid range, the risk of hairslip is reduced and
- the skins are easier to flesh.
- In pickling, after a certain time, **Decaltal Pic S** has a degrading effect on protein, leading to light and soft fur skins;
- the exhaustion of the aluminium or chromium salts in tanning is improved.

Application

**Deliming:**

For deliming, **Decaltal Pic S** is chiefly used in conjunction with other deliming agents, preferably with Decaltal types. In this combination, the product effects quick and thorough deliming without causing any damage to the grain by excess swelling. Moreover, it removes any lime blasts that may be present.

As **Decaltal Pic S** has no buffering effect, deliming systems should be buffered in advance, or **Decaltal Pic S** should be added at the beginning of the deliming (at high pH of the pelt approx. 12).

**Bating:**

**Decaltal Pic S** is excellent for combination with the enzymatic bating agents in our Basozym® range. The bating agent is generally added at the end of the deliming process. The optimum pH value for this can be achieved by adding more **Decaltal Pic S**.

**Pickling:**

As in the case of other pickling acids, **Decaltal Pic S** is added after a Baumé value of at least 6 has been established. Owing to the better absorption and distribution of the chrome tanning agent, the quantity provided can be reduced and full and tight-grained leathers are obtained.

**Soaking of fur skins:**

When used in the soaking of fur skins, **Decaltal Pic S** is combined with common salt, to prevent acid swelling. **Decaltal Pic S** reduces hairslip in the low pH range and leads to better fleshing results.
Pickling of fur skins:

Decaltal Pic S should first be allowed to act on the skins for at least 6 hours, before formic acid is added to achieve the desired pH value of the float.

**Examples**

1. Deliming of split cattle hide pelts (3.5 mm)
   (Percentages refer to pelt weight)

<table>
<thead>
<tr>
<th>Process</th>
<th>+ %</th>
<th>Product/Notes</th>
<th>°C</th>
<th>Dilution</th>
<th>Time (min)</th>
<th>pH, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash</td>
<td>120</td>
<td>Water</td>
<td>32</td>
<td></td>
<td>10</td>
<td></td>
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<tr>
<td>Drain float</td>
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<tr>
<td>Deliming</td>
<td>50</td>
<td>Water</td>
<td>32</td>
<td></td>
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<td></td>
<td>0.2</td>
<td>Sodium bisulphite</td>
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<td></td>
<td>1.5</td>
<td>Decaltal RN</td>
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<td></td>
<td>15</td>
<td></td>
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<tr>
<td></td>
<td>+</td>
<td>Decaltal Pic S</td>
<td></td>
<td></td>
<td>45</td>
<td>pH 8.0–8.5</td>
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<tr>
<td>Bating</td>
<td>+</td>
<td>Water</td>
<td>32</td>
<td></td>
<td>30</td>
<td>pH 8.0–8.5</td>
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<tr>
<td></td>
<td>0.5</td>
<td>Basozym 1000</td>
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<tr>
<td>Drain float</td>
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<tr>
<td>Wash 2x</td>
<td>120</td>
<td>Water</td>
<td>25</td>
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<td>10</td>
<td></td>
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<tr>
<td>Drain float</td>
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<td>Process as usual</td>
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2. Deliming of unsplit cattle hide pelts  
(Percentages refer to pelt weight)

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<th>Product/Notes</th>
<th>°C</th>
<th>Dilution</th>
<th>Time (min)</th>
<th>pH, etc.</th>
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<tbody>
<tr>
<td>Wash</td>
<td></td>
<td>120</td>
<td>Water</td>
<td>32</td>
<td></td>
<td>10</td>
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<td>Drain float</td>
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<td>Predeliming</td>
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<td>100</td>
<td>Water</td>
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<td></td>
<td>0.2 Sodium bisulphite</td>
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<td>Drain float</td>
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<td>2 Decaltal RN</td>
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<td>+ 0.5 Decaltal Pic S</td>
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<td>Wash 2x</td>
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<td>120</td>
<td>Water</td>
<td>25</td>
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<td></td>
<td>Drain float</td>
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<tr>
<td>Process as usual</td>
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3. Pickling and tannage for cattle hide upper leather 3.5 mm  
(Percentages refer to pelt weight)

<table>
<thead>
<tr>
<th>Process</th>
<th>+</th>
<th>%</th>
<th>Product/Notes</th>
<th>°C</th>
<th>Dilution</th>
<th>Time (min)</th>
<th>pH, etc.</th>
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<tbody>
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<td>Delime and bate as usual</td>
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<td>Wash 2x</td>
<td></td>
<td>120</td>
<td>Water</td>
<td>25</td>
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<td>Drain float</td>
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<td>Pickling</td>
<td></td>
<td>50</td>
<td>Water</td>
<td>25</td>
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<td></td>
<td></td>
<td>6 Common salt</td>
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<td>15</td>
<td>6° Bé</td>
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<td></td>
<td>+ 0.5 Lipoderm® Liquor A1</td>
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<td></td>
<td></td>
<td></td>
<td>0.1 Mollescalf® FUN (formerly Cortymol® FUN)</td>
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<td>15</td>
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<td></td>
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<td>+ 0.5 Decaltal Pic S</td>
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<td></td>
<td>+ 1 Sulphuric acid (98%)</td>
<td>1:10</td>
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<td>90</td>
<td>pH 3.0–3.5</td>
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<td></td>
<td>BCG: yellowish-green</td>
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<tr>
<td>Tanning</td>
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<td>6</td>
<td>Chromitan® B</td>
<td></td>
<td></td>
<td>120</td>
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<td></td>
<td>+ 30 Water</td>
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<td>45</td>
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<td></td>
<td></td>
<td>0.35 Neutrigan® MOS</td>
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<td></td>
<td>7–8 h</td>
<td>pH 3.6–3.8</td>
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<td>0.1 Mollescalf FUN</td>
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<td>Discharge</td>
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</table>
4. Soaking of fur skins (float ratio 1:20)

<table>
<thead>
<tr>
<th>Process</th>
<th>+ g/l</th>
<th>Product/Notes</th>
<th>°C</th>
<th>Dilution</th>
<th>Time (min)</th>
<th>pH, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt soaking</td>
<td></td>
<td>Water</td>
<td>25</td>
<td></td>
<td>4 h</td>
<td></td>
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<tr>
<td>Drain float</td>
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<tr>
<td>Soaking</td>
<td></td>
<td>Water</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>10</td>
<td>Common salt</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
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<tr>
<td></td>
<td>+ 1</td>
<td>Decaltal Pic S</td>
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<td></td>
<td>0.5</td>
<td>Eusapon® W</td>
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<td></td>
<td>Over night</td>
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<tr>
<td>Drain float</td>
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<td></td>
<td></td>
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<tr>
<td>Process as usual</td>
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</tbody>
</table>

5. Pickling for light and soft fur skins (float ratio 1:20)

<table>
<thead>
<tr>
<th>Process</th>
<th>+ g/l</th>
<th>Product/Notes</th>
<th>°C</th>
<th>Dilution</th>
<th>Time (min.)</th>
<th>pH, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pickling</td>
<td></td>
<td>Water</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>Common salt</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+ 3–4</td>
<td>Decaltal Pic S</td>
<td></td>
<td></td>
<td>6h</td>
<td>pH 4.0</td>
</tr>
<tr>
<td></td>
<td>+ 2–4 ml/l</td>
<td>Formic acid (85%)</td>
<td></td>
<td></td>
<td>1:5</td>
<td>Over night</td>
</tr>
<tr>
<td>Process as usual</td>
<td></td>
<td></td>
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</tbody>
</table>

Further information on the BASF products mentioned in connection with Decaltal Pic S is given in the corresponding technical information leaflets.

The shades of our dyes and pigments are illustrated in special pocket shade cards.

Please file this leaflet in your “Wet End” binder, Section 3.

Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

June 2010

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