Product: Salicylic Acid [crystals]

INCI: Salicylic Acid

Synonyms: 2-Hydroxybenzoic acid; o-hydroxybenzoic acid

Ph: 2.4

Molecular Weight: 138.12

Derived from: willow bark / Salicylic Acid is a derivative of aspirin (both are salicylates—aspirin’s technical name is acetyl salicylic acid)

Physical form: fine, white crystals

Solubility: 1 g / 460 ml water  alcohol / propylene glycol

Melting Point: 318 f

Specific Gravity: 1.443

MSDS and/or CoA:

Conditions to Avoid:
Avoid contact with heat, sparks, flames, or other sources of ignition.

Materials to Avoid:
Oxidizing materials, iron

Medicinal and cosmetic uses:
Also known as Beta Hydroxy Acid (compare to AHA), salicylic acid is the key additive in many skin-care products for the treatment of acne, psoriasis, callouses, corns, keratosis pilaris and warts. It treats acne by causing skin cells to slough off more readily, preventing pores from clogging up. This effect on skin cells also makes salicylic acid an active ingredient in several shampoos meant to treat dandruff. Use of straight salicylic solution may cause hyperpigmentation on untreated skin for those with darker skin types (Fitzpatrick phototypes IV, V, VI), as well as with the lack of use of a broad spectrum sunblock. The medicinal properties of salicylate (mainly for fever relief) have been known since ancient times. The substance occurs in the bark of willow trees; the name salicylic acid is derived from salix, the Latin name for the willow tree.

Main adverse effects
Salicylic acid is a gastric irritant and because of the serious damage it may cause to the stomach lining, it has not been used orally. Topical use of salicylic acid may induce allergic contact dermatitis (Davies, 1985). Salicylic acid may cause excessive drying and irritation in some people (Parish, 1991). Some individuals, especially asthmatics exhibit sensitivity to salicylates. Urticaria, angioneurotic oedema, rhinitis, severe and even fatal paroxysmal bronchospasm and dyspnea may occur (Reynolds, 1996).
**Formula/Recipe**  Salicylic Acid Toner 1% strength (sensitive skin)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Ratio</th>
<th>Amount</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grain Alcohol <em>everclear</em></td>
<td>94 %</td>
<td>3.76 oz</td>
<td>112.8 grams</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>5 %</td>
<td>.2 oz</td>
<td>6 grams</td>
</tr>
<tr>
<td>Salicylic Acid 1%</td>
<td>1 %</td>
<td>.04 oz</td>
<td>1.2 grams</td>
</tr>
</tbody>
</table>

Total 100% 100% 100%

Adjust the pH of the final product to around 2.5 – 3.0

**Formula/Recipe**  Salicylic Acid Toner 2% strength

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Ratio</th>
<th>Amount</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grain Alcohol <em>everclear</em></td>
<td>93 %</td>
<td>3.72 oz</td>
<td>111.6 grams</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>5 %</td>
<td>.2 oz</td>
<td>6 grams</td>
</tr>
<tr>
<td>Salicylic Acid 1%</td>
<td>2 %</td>
<td>.08 oz</td>
<td>2.4 grams</td>
</tr>
</tbody>
</table>

Total 100% 100% 100%

Adjust the pH of the final product to around 2.5 – 3.0

**References:**

*Rosacea Alert (topical acids)*

*Combination Therapies Offer New Management Options for Acne and Rosacea*
Safety Precautions:

- DO NOT breathe vapors
- DO NOT get in eyes, on skin, or on clothing
- Keep container closed and out of the Reach of Children
- Use adequate ventilation when formulating
- Wash thoroughly after using
- Wear impervious protective clothing, including boots, gloves, lab coat, apron, chemical safety goggles and a full face shield

**It is not known whether salicylic acid will be harmful to an unborn baby. But it is recommended that you should not use salicylic acid without first talking to your doctor if you are pregnant or could become pregnant.**