



## Willow Bark Extract – Technical Data Sheet (25% Salicin)

<b>INCI Name</b>	Salix Alba Bark Extract
<b>Botanical Source</b>	Salix spp. – Bark
<b>Specification</b>	25% Salicin
<b>Physical Form</b>	Light brown to brown fine powder
<b>Smell</b>	Mild, woody and slightly bitter odor
<b>Solubility in Water</b>	~10–20 g/L at 50 °C with stirring
<b>Solubility in Oil</b>	Practically insoluble
<b>Recommended Solubilization Method</b>	<ul style="list-style-type: none"><li>- Disperse in warm water (~50–60 °C)</li><li>- Stir thoroughly for 5–10 minutes</li><li>- Filter if required for clear solution</li></ul>
<b>Cosmetic Functions</b>	Astringent, exfoliating, skin conditioning
<b>Recommended Use Level</b>	0.5–2% (in water phase)
<b>Preservation/Handling</b>	Store tightly closed in cool, dry, and dark conditions
<b>Shelf Life</b>	24 months unopened and properly stored
<b>Toxicity Criteria</b>	
NOAEL	250 mg/kg bw/day (oral, rat, salicin-containing extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No genotoxicity observed in standard assays