



Pine Bark Extract – Technical Data Sheet (95% Proanthocyanidins)

INCI Name	Pinus Massoniana Bark Extract
Botanical Source	Pinus massoniana L. – Bark
Specification	95% Proanthocyanidins (UV)
Physical Form	Red-brown fine powder
Smell	Mild, woody, slightly astringent
Solubility in Water	~15–25 g/L at 50 °C with stirring
Solubility in Oil	Practically insoluble
Recommended Solubilization Method	<ul style="list-style-type: none">- Disperse in warm water (~50–60 °C)- Stir for 5–10 minutes- Filter to clarify if needed
Cosmetic Functions	Antioxidant, skin conditioning, astringent
Recommended Use Level	0.5–2% (in water phase)
Preservation/Handling	Store sealed in a cool, dry, and dark location
Shelf Life	24 months unopened in original packaging under proper storage
Toxicity Criteria	
NOAEL	1500 mg/kg bw/day (oral, rat, proanthocyanidin-rich extract)
LD50	>5000 mg/kg bw (oral, rat)
Genotoxicity	No genotoxic effects observed in standard in vivo and in vitro assays