



Hops Flower Extract – Technical Data Sheet (5% Xanthohumol)

INCI Name	Humulus Lupulus Flower Extract
Botanical Source	Humulus lupulus L. – Flower
Specification	5% Xanthohumol (UV)
Physical Form	Yellow-brown fine powder
Smell	Characteristic bitter herbal aroma
Solubility in Water	~3–6 g/L at 50–60 °C with stirring
Solubility in Oil	Limited solubility
Recommended Solubilization Method	- Disperse in warm water (~50–60 °C) with stirring - Add solubilizer (e.g., glycerin) if needed - Stir for 5–10 minutes and filter if required
Cosmetic Functions	Skin conditioning, soothing, astringent
Recommended Use Level	0.5–1.5% (in water phase or emulsion)
Preservation/Handling	Keep in tightly sealed packaging, store in a cool, dry, and dark place
Shelf Life	24 months under proper storage conditions
Toxicity Criteria	
NOAEL	1000 mg/kg bw/day (oral, rat, hop extract with xanthohumol)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No genotoxic effects reported in vitro or in vivo studies