



Milk Thistle Extract – Technical Data Sheet (80% Silymarin)

INCI Name	Silybum Marianum Seed Extract
Botanical Source	Silybum marianum L. – Seed
Specification	80% Silymarin (UV)
Physical Form	Light yellow to yellow-brown fine powder
Smell	Neutral to mildly herbal odor
Solubility in Water	~2–4 g/L at 50–60 °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 5–10 minutes with moderate agitation- Filter for clarity if required
Cosmetic Functions	Antioxidant, skin conditioning, soothing
Recommended Use Level	0.5–2% (in water phase)
Preservation/Handling	Store in a sealed, cool, dry place protected from light
Shelf Life	24 months in unopened original packaging under proper storage
Toxicity Criteria	
NOAEL	1000 mg/kg bw/day (oral, rat, silymarin extract)
LD50	>5000 mg/kg bw (oral, rat)
Genotoxicity	No genotoxicity observed in standard in vitro and in vivo assays