

# Solarepare MB

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Solarepare MB is a natural active raw material extracted from *Magnolia biondii* flower. *M. biondii* is produced in the genuine producing area, Nanzhao County, Henan Province. Its flowers are rich in lignans, which can effectively reduce the number of sunburned cells induced by ultraviolet (UV), reduce the reactivity of skin cells and blood vessels, improve skin structure and erythema, and alleviate UV damage.

## INCI Name:

Propanediol, *Magnolia biondii* Flower Extract

## Features and benefits:

Regulate damage associated molecular patterns (DAMPs) of sunburned cells, inhibit the release of various cytokines;

Reduce vascular permeability and the production of endothelin-1 and ICAM-1;

Protect skin before sun exposure, repair skin after sun exposure and alleviate skin erythema.

## Applications:

It can be used in soothing and repairing products and also as an effective adjuvant in sunscreen products. Suitable formulations include sunscreen, spray, gel, essence, and emulsion, etc..

## Specifications:

Appearance	Light yellow to yellow transparent liquid
Odor	Characteristic odor
Relative density (20°C)	1.02 - 1.10
Refractive index (20°C)	1.400 - 1.500
Content of total lignans (UV)	≥ 1.0 %
Colony number	< 100 CFU/ml
Yeast and molds	< 10 CFU/ml
Pb	< 5.0 mg/kg
Cd	< 1.0 mg/kg
Hg	< 0.1 mg/kg
As	< 0.1 mg/kg

## Recommended use level:

0.5% - 5.0%

## Use method:

Add below 45°C, then stir until mix evenly.

## Package:

10.0 kg/drum, 25.0 kg/drum.

## Storage:

It shall be stored in a ventilated and dry warehouse with temperature not higher than 30°C and kept sealed.

## Shelf life:

Two years.