



# Safety Statement

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Product Name: ABS Pueraria Mirifica Extract PF

Code: 10642

INCI Name: Water & Butylene Glycol & Pueraria Mirifica Root Extract

ABS Pueraria Mirifica Extract PF is manufactured by first processing (mechanical grinding/milling) *Pueraria mirifica*. The plant is then extracted in water and blended with butylene glycol before filtration.

Butylene glycol is a synthetic compound commonly used as a solvent. In 1985, the Journal of the American College of Toxicology published a report entitled "Final Report on the Safety Assessment of Butylene Glycol, Hexylene Glycol, Ethoxydiglycol, and Dipropylene Glycol".<sup>1</sup>

This report concluded that butylene glycol is safe for topical use in cosmetic products. This claim was substantiated by the results of several toxicity and irritation tests. Butylene glycol tested at 100% caused minimal to mild irritation of skin and eyes in test animals. Human skin patch tests on undiluted butylene glycol produced a very low order of primary skin irritation. An RIPT (Repeated Insult Patch Test) produced no evidence of skin sensitization.<sup>1</sup>

Various toxicity tests of *Pueraria mirifica* extracts and powders were conducted by Chulalongkorn University in Thailand. Results revealed no acute toxicity, no dermal irritation, and no ocular irritation. The test products were also not skin sensitizers. The conclusion of the study was that *Pueraria mirifica* extracts are safe for human dermal application.<sup>2</sup>

ABS Pueraria Mirifica Extract PF was tested using *in vitro* dermal and ocular irritation models. This product was found to be non-irritating in both models. The full report is attached for reference.

The above information supports the safety of ABS Pueraria Mirifica Extract PF in cosmetic applications at use levels of 1.0 – 10.0%. No further testing is required at this time.

1. "Final Reports on the Safety Assessment of Butylene Glycol, Hexylene Glycol, Ethoxydiglycol, and Dipropylene Glycol". Journal of the American College of Toxicology. Volume 4, Number 5. 1985.
2. Cherdshewasart, Wichai. "Toxicity Tests of a Phytoestrogen-Rich Herb, *Pueraria mirifica*." Department of Biology, Faculty of Science, Chulalongkorn University, Thailand.

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