



Safety Statement

info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

Product Name: ABS Imperata Cylindrica Extract PF
Code: 10306PF
INCI Name: Imperata Cylindrica Root Extract & Water

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

The *Imperata cylindrica* root extract is of natural origin. While not commonly used in modern food preparations, *Imperata cylindrica* may be eaten or chewed, and was used in oral traditional Chinese medicines.^{1, 2} Therefore it may be classified as Generally Recognized as Safe (GRAS) according to the FDA's Federal Food, Drug and Cosmetic Act.³

The act states:

Any substance that is intentionally added to food is a food additive, that is subject to premarket review and approval by FDA, unless the substance is generally recognized, among qualified experts, as having been adequately shown to be safe under the conditions of its intended use, or unless the use of the substance is otherwise excluded from the definition of a food additive.³

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".⁴

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.⁴

ABS Imperata Cylindrica 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 Imperata Cylindrica Extract PF in cosmetic applications at use levels of 1.0 – 10.0%. No further testing is required at this time.

1. Imperata Cylindrica. Wikipedia. http://en.wikipedia.org/wiki/Imperata_cylindrica
2. Chinese Herbs Healing. Japanese Blood Grass – Bai Mao Gen Stops the Bleeding. <http://www.chineseherbshealing.com/japanese-blood-grass-bai-mao-gen-stops-the-bleeding/>
3. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. www.fda.gov.
4. "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.

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.
This information is offered solely for your investigation, verification, and consideration.