



Safety Statement

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Product Name: AC Biopolymer Soy PF

Code: 21002PF

INCI Name: Sodium C8-16 Isoalkylsuccinyl Soy Sulfonate

AC Biopolymer Soy PF is manufactured by first grinding and/or milling Glycine max. The soy proteins are then reacted with an alkyl substituted succinic anhydride under controlled conditions. This is then reacted with sulfuric acid to form a sulfonate.

Glycine max is of natural origin. It is also used commonly in food and nutritional wellness products. Therefore it may be classified as Generally Recognized as Safe (GRAS) according to the FDA's Federal Food, Drug and Cosmetic Act.¹

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.¹

Allergic reactions to soy and soy-derived products are possible. Those with known allergies or sensitivities to soy should avoid products containing it.

While the Cosmetic Ingredient Review (CIR) has not specifically conducted safety reviews for this particular sulfonate, they did publish data reviewing sodium alpha-olefin sulfonates. Since these compounds are similar in structure to the composition of AC Biopolymer Soy PF, their safety data may be considered relevant. The CIR concluded that sodium alpha-olefin sulfonates are safe in rinse-off products and safe up to 2% in leave-on products. This conclusion was based on promising toxicity, mutagenicity, carcinogenicity, and reproductive/developmental studies.² There is no published information that suggests that Sodium C8-16 Isoalkylsuccinyl Soy Sulfonate would be unsafe for topical use.

AC Biopolymer Soy 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 AC Biopolymer Soy PF in cosmetic applications at use levels of 0.5-5.0%. No further testing is required at this time.

1. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. www.fda.gov.
2. "Final Report on the Safety Assessment of Sodium Alpha-Olefin Sulfonates". Cosmetic Ingredient Review. <http://online.personalcarecouncil.org/ctfa-static/online/lists/cir-pdfs/pr45.pdf>

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