



Safety Statement

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Product Name: AC Cinnamon Liposome

Code: 16098

INCI Name: Water & Cinnamomum Cassia Bark Extract & Phospholipids

AC Cinnamon Liposome is manufactured by first processing (mechanical grinding/milling) *Cinnamomum cassia* bark. The plant is then extracted in water before filtration. Phospholipids are then dispersed into the aqueous extract for a specific duration before homogenization to form liposomes.

Cinnamomum cassia bark extract is of natural origin and also used commonly in food and nutritional wellness products. Phospholipids used to manufacture AC Cinnamon Liposome are derived from hydrogenated soybean oil (*Glycine max*) which is of natural origin and used in food and wellness products as well. Hydrogenated soybean oil is classified as a Generally Recognized as Safe (GRAS) substance according to the FDA¹. Therefore, both *Cinnamomum cassia* bark extract and phospholipids may be classified as GRAS according to the FDA's Federal Food, Drug and Cosmetic Act.²

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.²

The Cosmetic Ingredient Review (CIR) conducted a safety assessment of various types of plant-derived fatty acid oils, including hydrogenated soybean oil. The report concluded that all types of soybean oil forms are safe for use in cosmetic preparations.³

Allergic reactions to phospholipids derived from hydrogenated soybean oil are very rare, but are possible. Those with known allergies or sensitivities to soy should avoid products containing it.⁴

AC Cinnamon Liposome 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 Cinnamon Liposome in cosmetic applications at use levels of 1.0-10.0%. No further testing is required at this time.

1. "Alphabetical List of SCOGS Substances". US Food & Drug Administration. <http://www.fda.gov/Food/IngredientsPackagingLabeling/GRAS/SCOGS/ucm260428.htm>
2. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. www.fda.gov.
3. "Final Report of Plant-Derived Fatty Acid Oils as Used in Cosmetics." Cosmetic Ingredient Review. <http://online.personalcarecouncil.org/ctfa-static/online/lists/cir-pdfs/FR577.pdf>
4. "Soy Allergy". [Mayo Clinic](http://www.mayoclinic.org/diseases-conditions/soy-allergy/basics/prevention/con-20031370). <http://www.mayoclinic.org/diseases-conditions/soy-allergy/basics/prevention/con-20031370>

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