



# Safety Statement

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

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Product Name: AC DermaPeptide MicroC PF

Code: 20450PF

INCI Name: Saccharomyces/Capsicum Annuum Fruit Ferment Filtrate

AC DermaPeptide MicroC PF is manufactured by macerating *Capsicum annuum* fruit, then fermenting it with *Saccharomyces* yeast. The ferment is then filtered.

*Saccharomyces* is a genus of yeast used to produce a variety of food products. Yeast autolysates are listed on the FDA's database of Generally Recognized as Safe (GRAS) substances.<sup>1</sup>

The Cosmetic Ingredient Review (CIR) conducted a safety assessment on *Capsicum annuum*, *Capsicum frutescens*, their extracts, and capsaicin, an ingredient found in *Capsicum* plants. The assessment took into account the relatively low use level of capsaicin in cosmetic products (roughly 0.05% on average) and the GRAS status of the spice paprika (plant source *Capsicum annuum*) for its intended use in food. Capsaicin can be irritating to the skin above certain percentages, but the amount at which it appears in AC DermaPeptide MicroC PF should not cause irritation issues if employed at the suggested use level. Capsaicin can also enhance penetrate of certain cosmetic agents through human skin, so care should be taken in using ingredients that contain capsaicin in cosmetic applications. The CIR concluded that capsaicin, and its associated plant extracts, are safe as used in cosmetics, assuming the formulations they are used in are designed to avoid irritation issues.<sup>2</sup>

AC DermaPeptide MicroC 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 DermaPeptide MicroC 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](http://www.fda.gov).
2. "Final Report on the Safety Assessment of Capsicum Annuum Extract, Capsicum Annuum Fruit Extract, Capsicum Annuum Resin, Capsicum Annuum Fruit Powder, Capsicum Frutescens Fruit, Capsicum Frutescens Fruit Extract, Capsicum Frutescens Resin, and Capsaicin". Cosmetic Ingredient Review. <http://online.personalcarecouncil.org/ctfa-static/online/lists/cir-pdfs/pr319.pdf>

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