



Safety Statement

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Product Name: ACB Bio-Chelate 5 PF

Code: 20339PF

INCI Name: Water & Saccharomyces/Zinc Ferment & Saccharomyces/Copper Ferment & Saccharomyces/Magnesium Ferment & Saccharomyces/Iron Ferment & Saccharomyces/Silicon Ferment

ACB Bio-Chelate 5 PF is manufactured by fermenting zinc, copper, magnesium, iron, and silicon with *Saccharomyces cerevisiae*. Due to a natural biological process, the minerals become complexed and no longer exist as free metals. They are then referred to in this product as "bio-chelates". The fermented mixture undergoes an aqueous extraction, the product of which is filtered.

Saccharomyces cerevisiae is a yeast of natural origin used by bakers and brewers globally. Section 184.1983 of the Federal Food & Drug Administration (FDA) declares that any *Saccharomyces cerevisiae* extract is Generally Recognized as Safe (GRAS).¹

The Environmental Protection Agency (EPA) conducted an investigation into the human health effects of metals. It classified magnesium, iron, copper, and zinc as nutritionally essential minerals, while silicon is classified as a "possibly beneficial" compound. None of the metals are carcinogenic, and danger to humans is only relevant and of concern when the metals are ingested or inhaled.²

ACB Bio-Chelate 5 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 ACB Bio-Chelate 5 PF in cosmetic applications at use levels of 0.5-5.0%. No further testing is required at this time.

1. "CFR-Code of Federal Regulations Title 21". Federal Food & Drug Administration.
<http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcr/CFRSearch.cfm?r=184.1983>
2. "Issue Paper on the Human Health Effects of Metals". Environmental Protection Agency.
<http://www.epa.gov/raf/publications/pdfs/HUMANHEALTHEFFECTS81904.PDF>

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