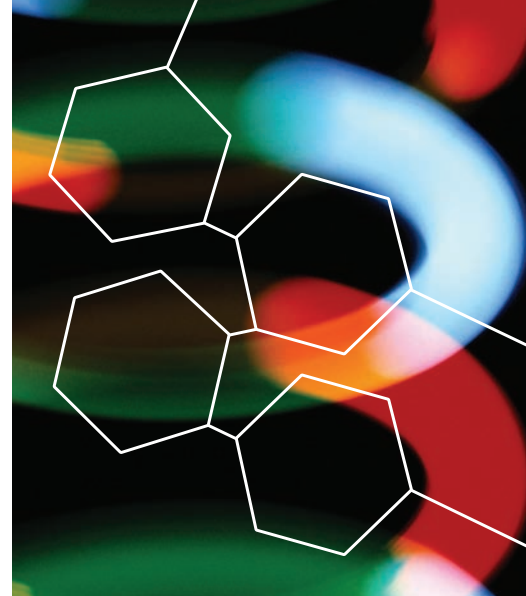


# SunActive®

THE ESSENTIAL IRON  
INGREDIENT THAT WON'T  
ADD TASTE OR COLOR.



## THE SOLUTION TO A WIDESPREAD DEFICIENCY

Iron is one of the most important nutrients for our health. Unfortunately, this essential element is all too often lacking in the diets of infants, children and young, active or pregnant women. When we lack iron in the body, our hemoglobin decreases and we experience inefficiency, as well as gastric disorders.

Previously, many of the iron sources that exhibited the best bioavailability adversely affected product quality by accelerating oxidation, producing unfavorable color or flavor and causing severe irritation of the gastrointestinal system. Compatible and non-reactive iron compounds, having less iron taste, were needed for fortification.

That need led to the creation of SunActive® Iron, a micro-encapsulated ferric pyrophosphate that disperses insoluble iron in liquid formulations without precipitation, iron flavor or change in color. It is stable against heat, salt, pH and oxidation. SunActive Iron is mild on the gastrointestinal system, providing non-irritating iron fortification with superior absorption properties and bioavailability.

## BIOLOGICALLY ACTIVE

Iron absorption is confirmed by the serum iron method, hemoglobin regeneration efficiency (HRE) method and modified AOAC method.<sup>1</sup> Human bioavailability studies, conducted at the Institute of Food Science and Nutrition, Zurich, Switzerland, in a stable isotope bioavailability study with infant cereal and yogurt drink, found SunActive Iron to have the same bioavailability as ferrous sulfate in adult women.<sup>2</sup>

## DOCUMENTED SAFETY

SunActive Iron is Generally Recognized As Safe (GRAS) for its intended use as a nutrient supplement in foods with no limitations other than those set forth in the Food and Drug Administration's Fortification Policy for Iron. The safety of SunActive Iron has been confirmed by Acute Toxicity and Ames Salmonella/Microsome Plate tests.

## SUNACTIVE® IRON OFFERS:

- No irritation
- Stability against heat and oxidation
- No precipitation
- No iron flavor or color
- Sustained release, high absorption and bioavailability

## SUNACTIVE® IRON SPECIFICATIONS

**Appearance** White to light yellow powder

**Iron content** 85.0 ± 5.0 mg/g

**Loss on Drying** Less than 7.0%

**Arsenic (as As<sub>2</sub>O<sub>3</sub>)** Less than 4.0 µg/g

**Lead** Less than 1.0 µg/g

**Standard plate count** Less than 1,000 CFU/g

**Coliforms** Negative/0.1g

**Mold / Yeast** Less than 100 CFU/g

## COMPOSITION

**Maltodextrin** CAS 9050-36-6  
21CFR184.1444

**Ferric pyrophosphate** CAS 10058-44-3  
21CFR182.5304

**Polyglycerol esters** CAS 74504-63-5  
21CFR172.854

**Hydrolyzed Lecithin** CAS 85711-58-6  
21CFR184.1063

**Sodium chloride (processing aid)** CAS 7647-14-5  
GRAS



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## DOSAGE AND SERVINGS

SunActive® Iron was launched in Japan in 1998 for use in all foods and beverages. Presently, products containing SunActive Iron, including iron-fortified milk, yogurt, ice cream, soups, dressings, infant nutrition, sports drinks and dietary supplements have been launched throughout the world. Typical dose is approximately 22.5 mg per serving.

## PACKAGING AND STORAGE

10 kg net carton box, PE liner. In its original packaging, SunActive Iron may be stored at room temperature at least 60 months from date of production. Store in a cool, dry place away from heat and direct light.

## QUALITY COMMITMENT

When you choose one of our ingredients, you can be confident that you've chosen the best. In fact, we only represent those ingredients that both meet our rigorous quality standards and provide a healthful or environmental benefit. We examine the manufacturer's capabilities, capacity, GMP procedures, analytical protocols and quality standards. With our careful due diligence, you can continue to feel confident that regardless of the ingredients you get from us, they will consistently be of the highest quality.

## ABOUT BERGSTROM NUTRITION

The only dedicated NPA GMP-certified MSM production facility in the world, exceeding industry standards for optimal purity and product consistency. The Vancouver, Washington based company pioneered the use of MSM for human consumption in 1989. Their proprietary OptiMSM® is the only MSM backed by U.S. published clinical research and can be found in leading joint health products in all major channels.

To learn more about SunActive® Iron or any of the ingredients and products provided by Bergstrom Nutrition, visit [www.bergstromnutrition.com](http://www.bergstromnutrition.com) or call us at 360-693-1883.

- 1 LR Juneja, H Nakata, N Sakaguchi and H Nanbu. Nutritional Foods Division, Taiyo Kagaku Co., Ltd. Japan. Iron absorption and bioavailability in rats of micronized dispersible ferric pyrophosphate. Int. J. Vitam. Nutr. Res. 73 (6) 2003.
- 2 Meredith C Fidler, Lena Davidsson, Christophe Zeder, Thomas Walczyk, Richard F Hurrell. Laboratory For Human Nutrition, Institute of Food Science And Nutrition, ETH Zurich, PO Box 474, Ch-8803 Rüschlikon, Switzerland. A micronized, dispersible ferric pyrophosphate with high relative bioavailability in man. Laboratory for Human Nutrition, Institute of Food Science and Nutrition, ETH Zurich, Switzerland. British Journal of Nutrition (2004), 91, 107-112.

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These statements have not been evaluated by the Food & Drug Administration. This product is not intended to diagnose, treat, cure or prevent disease.