

News Release

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Merck KGaA, Darmstadt, Germany, receives award for its “Advanced Light Protection” concept

- **Sepawa Innovation Award for advanced light protection of the skin**
- **Award-winning new combination of UV filter and mica-based interference filler for the “first defense line” against visible light rays and infrared-A radiation**

Darmstadt, October 20, 2017 – Merck KGaA, Darmstadt, Germany, a leading science and technology company, yesterday received the Sepawa Innovation Award 2017 for its “Advanced Light Protection” concept. It was presented for the fifth time by Sepawa at its congress in Berlin. Sepawa is one of Europe’s largest professional associations; its members come from the cosmetics and perfumery industries as well as the detergents/cleansers sector.

Well-established products, new effect

“Advanced Light Protection” is in line with the latest findings on the sunlight-induced mechanisms of skin damage and skin aging. Furthermore, it meets the needs of the cosmetics industry for light protection solutions that can be easily incorporated into formulations and offers customers an additional benefit.

The advanced concept is the result of researching further application possibilities for our well-established functional products for innovative skin protection. It combines the light-protective, antioxidative properties of the inorganic titanium dioxide UV filter Eusolex® T-PRO and the skin tone-balancing properties of the mica-based interference filler RonaFlair® Balance Blue, with the discovery of new light protection properties of the two products.



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This discovery relates to the newest (or latest) findings on infrared-A radiation (IR-A) of the sunlight and the short-wave, high-energy, blue-violet parts of the visible light (HEVL). IR-A and HEVL penetrate deep into the skin, where they cause lasting damage due to the production of reactive oxygen species (ROS). Skin becomes dry, loses its elasticity, becomes wrinkled, easily irritated and reddened. Besides IR-A radiation, not only natural HEVL radiation but also the radiation emitted from modern displays and flat screens are said to accelerate skin aging.

In combination, Eusolex® T-PRO and RonaFlair® Balance Blue significantly reduce the transmission of damaging IR-A and HEVL radiation. "With our concept, we are offering manufacturers an innovative tool for skincare cosmetics with state-of-the-art light protection," says Karl-Christian Gallert, Head of Cosmetics at Merck KGaA, Darmstadt, Germany. "The combination of the two products allows the amount of IR-A and HEVL radiation to be significantly reduced, thus providing the surface of the skin with an effective protective screen. This makes it possible to minimize damaging influences on and in the skin, while creating a concealing effect at the same time." As an inorganic UV filter with radical-scavenging properties, Eusolex® T-PRO neutralizes the damaging ROS; RonaFlair® Balance Blue balances yellowish skin tones and gives the complexion a fresh and healthy appearance. In combination, they offer the cosmetics industry a wide diversity of possibilities for innovative skincare products with light-protective properties.

Cosmetic ingredients from Merck KGaA, Darmstadt, Germany: Merck KGaA, Darmstadt, Germany, is a leading manufacturer of ingredients for the cosmetics industry. Along with decorative effect pigments, the company offers its customers functional solutions in the field of skin care and protection. In particular, effect pigments and functional products are used in many cosmetic products and packagings in order to provide color, luster, gloss and other effects and to strengthen brand identity. We offer a wide range of active ingredients used in skin care cosmetics to protect the skin against UV radiation and premature aging.

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About Merck KGaA, Darmstadt, Germany

Merck KGaA, Darmstadt, Germany, is a leading science and technology company in healthcare, life science and performance materials. Around 50,000 employees work to further develop technologies that improve and enhance life – from biopharmaceutical therapies to treat cancer or multiple sclerosis, cutting-edge systems for scientific research and production, to liquid crystals for smartphones and LCD televisions. In 2016, Merck KGaA, Darmstadt, Germany, generated sales of € 15.0 billion in 66 countries. Founded in 1668, Merck KGaA, Darmstadt, Germany, is the world's oldest pharmaceutical and chemical company. The founding family remains the majority owner of the publicly listed corporate group. Merck KGaA, Darmstadt, Germany, holds the global rights to the „Merck“ name and brand. The only exceptions are the United States and Canada, where the company operates as EMD Serono, MilliporeSigma and EMD Performance Materials.