

News Release

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BASF Sunscreen Simulator 4.0: Now with even more functionalities

- **The digital tool that supports the development of sunscreens is now even more comprehensive, with the integration of a cockpit functionality**
- **Integration of EcoSun Pass® criteria for direct assessment of environmental impact of selected UV filter combinations**
- **Evaluation of the interaction of UV filters and emollients**

[BASF's Care Creations®](#) has further refined the functionality and scope of its Sunscreen Simulator. The latest relaunch of the virtual laboratory now provides formulators and manufacturers with even more options for digitally defining the UV protection of a sun protection product. Sunscreen Simulator 4.0 offers an updated, customizable user interface. The new cockpit functionality guides users through the simulator and expands options for creating and managing projects and personal data. Access to helpful scientific support has also been integrated into the cockpit.

"The integration of the EcoSun Pass® is a tremendous step forward for formulators. In addition to UV performance, they can now also directly check the environmental impact of the selected UV filter systems," explains Dr. Myriam Sohn from the Global Technical Center Sun Care.

The BASF Sunscreen Simulator serves as a recognized benchmark in the industry for determining the sun protection factor (SPF). In addition to the known performance parameters (SPF, UVA protection, photostability), it is now also

possible to perform calculations to protect against blue light irradiation and the generation of free radicals.

The Solubilizer Simulator is also entirely new: As part of the Sunscreen Simulator it evaluates the efficacy of the combination of UV filters and emollients and provides information about the naturalness (as defined by ISO16128) of the emollients.

Further information on the Sunscreen Simulator is available on our website at: <https://www.carecreations.basf.com/sunscreen-simulator>

About the Care Chemicals division at BASF

The BASF division Care Chemicals offers a broad range of ingredients for personal care, hygiene, home care, industrial & institutional cleaning, and technical applications. We are the global leading supplier for the cosmetics industry as well as the detergents and cleaners industry, and support our customers with innovative and sustainable products, solutions and concepts. The division's high-performance product portfolio includes surfactants, emulsifiers, polymers, emollients, chelating agents, cosmetic active ingredients and UV filters. We have production and development sites in all regions and are expanding our presence in emerging markets. Further information is available online at www.care-chemicals.basf.com.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. More than 110,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €59 billion in 2020. BASF shares are traded on the stockexchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at www.basf.com.