

## DSM expertise in Photoprotection

### PARSOL® UV-filter portfolio

## dsm-firmenich

DSM-Firmenich brings over 40 years of global expertise in the sun care industry. This extensive experience is reflected in one of the most comprehensive UV filter portfolios worldwide, along with a complete range of sun care solutions for customers.

To assist customers further, DSM-Firmenich offers the use of a free A.I. tool, called the Sunscreen Optimizer™, designed for industry formulation experts in the early stages of development. It assists in defining and optimizing formulations based on factors such as SPF, formulation sustainability, skin feel, and more.

DSM-Firmenich UV FILTERS

DSM-Firmenich Sunscreen Optimizer™

## The PARSOL® UV filter portfolio – The broadest in the industry

<b>PARSOL® HS</b> A water soluble UVB-filter for dry-touch high SPF formulations	<b>PARSOL® SLX</b> The first polymeric UVB-filter for superior skin feel and hair color protection	<b>PARSOL® DHHB</b> UVA protection that is compatible with all UVB filters on the market	<b>PARSOL® 1789</b> The original global standard for UVA protection	<b>PARSOL® EHT</b> The most eco-friendly UV-B filter thanks to its UV absorbance
<b>PARSOL® HMS</b> The perfect solubilizer with SPF-enhancing properties	<b>PARSOL® EHS</b> SPF enhancing UVB-filter with good solubilizing properties	<b>PARSOL® TX</b> The inorganic UV-filter with best formulation compatibility	<b>PARSOL® Max</b> From max in UV to blue light	<b>PARSOL® Shield</b> Ultra-broad shield in UV
<b>PARSOL® 340</b> Liquid UVB-filter and best friend of PARSOL® 1789	<b>PARSOL® MCX</b> The efficient UVB-filter with excellent solubilizing properties	<b>PARSOL® Guard</b> Broad spectrum UV protection for colors and other light-sensitive ingredients	<b>PARSOL® ZX</b> Mineral fusion for broad protection	Delivering the Power of UV Protection

## PARSOL® UV filter portfolio

Delivering the power of UV protection

### ORGANIC UV-FILTERS

### INORGANIC UV-FILTERS

#### UVB

- PARSOL® EHT**  
[Ethylhexyl Triazone] the highest UV-B absorption in the Market
- PARSOL® SLX**  
[polysilicone-15] The first polymeric UV-B filter for superior skin feel and hair color protection
- PARSOL® 340**  
[Octocrylene] Liquid UV-B filter and best friend of Parsol® 1789
- PARSOL® MCX**  
[OMC] The efficient UV-B filter with excellent solubilizing properties
- PARSOL® EHS**  
[Ethylhexyl Salicylate] SPF enhancing UV-B filter with good solubilizing properties.
- PARSOL® HS**  
[PBSA] A water soluble UV-B filter for dry-touch high SPF formulations.
- PARSOL® HMS**  
[Homosalate] The perfect solubilizer with SPF-enhancing properties.

#### Broad Spectrum

- PARSOL® Max**  
[MBBT] From max in UV to blue light.
- PARSOL® Shield**  
[BEMT] Ultra-broad shield in UV.

#### UVA

- PARSOL® 1789**  
[Avobenzene] The original global standard for UVA protection
- PARSOL® DHHB \***  
[DHHB] High efficiency UVA protection, photostable and compatible with all UVB filters

#### TiO2

- PARSOL® TX**  
[Titanium dioxide] The inorganic UV filter with best formulation compatibility.

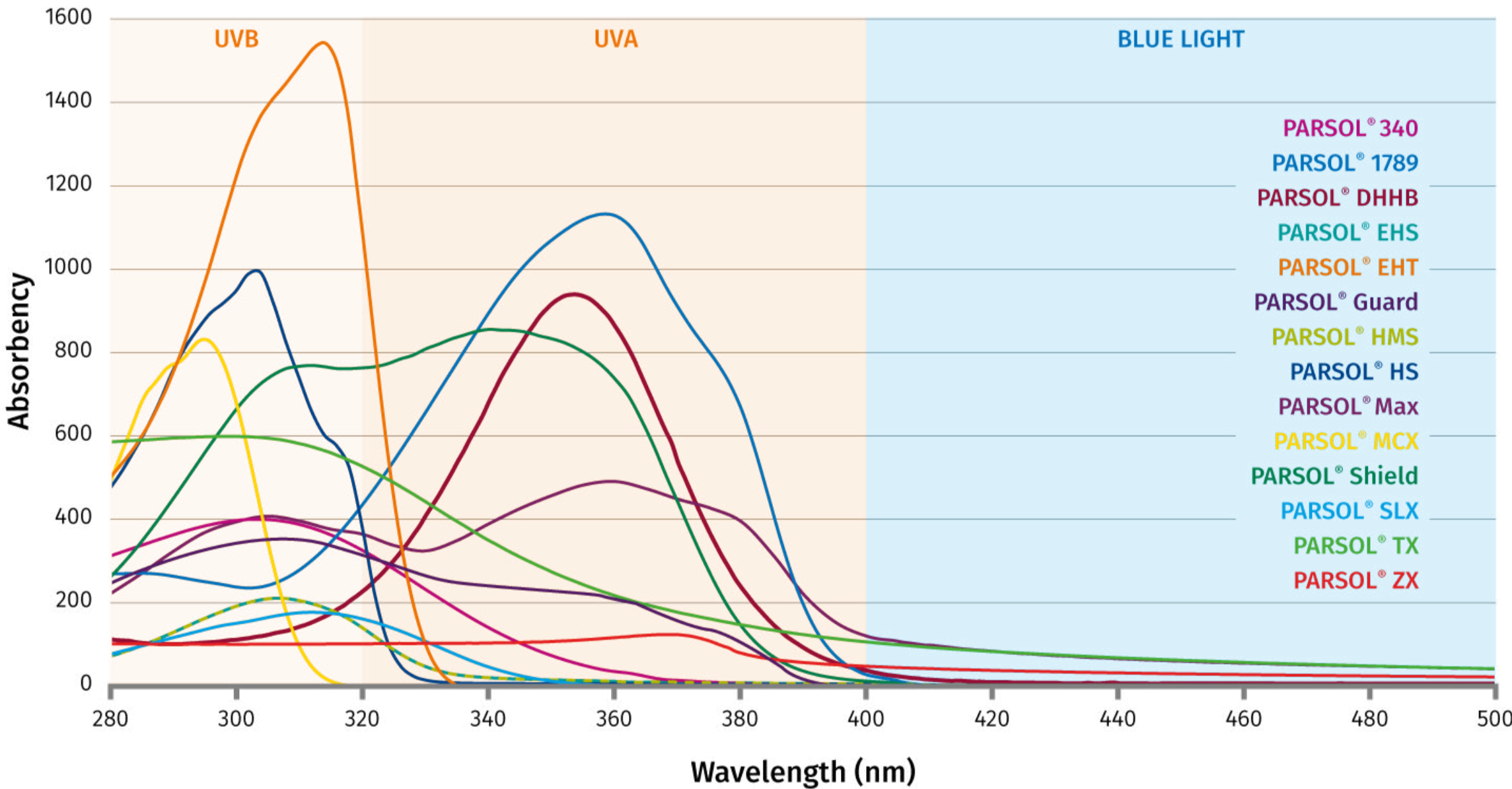
#### ZnO

- PARSOL® ZX**  
[Zinc oxide] Mineral fusion for broad protection.

\* Launch approved for April 2023 deployment

## PARSOL® UV filter portfolio

UV absorption spectrum of most commonly used UV-filters



## DSM a Partner of Choice in Photoprotection

DSM capabilities and expertise to best serve our customers

#### UV TASK FORCE

- DSM internal group of experts
- Monitoring concerns and challenges related to UV filters
- Defines strategies to provide best solutions

#### SENSORY

- Trained expert panels (bi-weekly evaluations)
- Objective assessments of 28 sensory parameters
- Market mapping and concept improvement

#### PRODUCT STEWARDSHIP

- Product quality and safety
- Regulatory compliance
- Toxicology and ecotoxicology

#### SCIENCE & APPLICATION

- New claim substantiation (e.g. blue light)
- Compatibilities of ingredients in various chassis
- Inspirational formulations/issue solving

#### ADVOCACY

- Defense of ingredients
- Involvement in REACH associations
- Presence in industry associations (IKW, FEBEA, ISO, EFFCI etc.)

#### DSM SUNSCREEN OPTIMIZER™

- Online simulation tool
- Direct searches and customized questions (no FTO)
- Archived searches and additional parameters (eco-profile, blue light, solvent calculator, etc.)

#### CONSUMER AND MARKET INSIGHTS

- Proprietary consumer surveys
- Analysis of global and local trends
- DSM consumer insights hub

#### INTELLECTUAL PROPERTY

- Oral assistance on specific patent questions (no FTO)
- Licensing of DSM intellectual property

For inquiries, samples, or further information, please don't hesitate to contact Chempure.

### CONTACT DETAILS

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