

QUALITY CARES.



Product Overview

High-purity ingredients for Personal Care

QUALITY WORKS.

LANXESS

LANXESS Distribution GmbH

Head of Personal Care

Michael Bader
Phone: +49 (0) 221 8885 2390
Mobile: +49 (0) 175 30 19 115
E-Mail: michael.bader@lanxess.com

Regional Sales Europe

Austria / Benelux / Germany / Italy / Switzerland

Peter Gallert
Mobile: +49 (0) 175 30 19 167
E-Mail: peter.gallert@lanxess.com

France

Stephanie Galois-Drouard
Phone: +33 (0) 1 80 46 30 18
Mobile: +33 (0) 6 09 76 97 07
E-Mail: stephanie.galois-drouard@lanxess.com

Spain / Portugal

Rosa Maria Oñate
Phone: +34 933 415 249
Mobile: +34 629 721 369
E-Mail: rosa-maria.onate@lanxess.com

Turkey

Sadet Ersungur
Phone: +90 216 600 03 11
Mobile: +90 530 150 66 68
E-Mail: sadet.ersungur@lanxess.com

United Kingdom / Ireland

Dominika Blaszkow
Phone: +44 (0) 1635 568648
Mobile: +44 (0) 7554 995304
E-Mail: dominika.blaszkow@lanxess.com

Central Eastern Europe

Hristo Kabakchiev
Mobile: +421 915 913 131
E-Mail: hristo.kabakchiev@lanxess.com

Poland

Robert Rozej
Mobile: +48 784 580 482
E-Mail: robert.rozej@lanxess.com

Technical Marketing

Dr. Matthias Kunze
Phone: +49 (0) 221 8885 5127
Mobile: +49 (0) 175 30 19 172
E-Mail: matthias.kunze@lanxess.com

Regional Sales Central / North America

USA / Canada

Tony Mazzarella
Phone: +1 412 809 1522
Mobile: +1 412 398 5749
E-Mail: tony.mazzarella@lanxess.com

Mexico

Eloisa Miranda
Phone: +52 55 5262 4347
Mobile: +52 155 4355 4342
E-Mail: eloisa.miranda@lanxess.com

Regional Sales South America

Brazil

Denise Nasi
Phone: +55 (11) 3741 1536
Mobile: +55 (11) 98444 3289
E-Mail: denise.nasi@lanxess.com

Regional Sales Asia

China

Jiming Yan
Phone: +86 21 6109 8370
Mobile: +86 186 1601 7980
E-Mail: jiming.yan@lanxess.com

WELCOME TO LANXESS DISTRIBUTION

LANXESS is a leading specialty chemicals company, currently represented at 60 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. As a 100% subsidiary, LANXESS Distribution is focused on the marketing and distribution of premium chemical products, providing expert solutions and specialist advice to our customers.

Our Personal Care raw materials are notable for their high level of purity, making them especially suitable for the stringent quality requirements of the cosmetics industry.

Combined with our technical expertise, international network, flexible lot sizes and outstanding service, this has made us a reliable, long-term partner for the global cosmetics industry.

QUALITY CARES.



PERSONAL CARE PRODUCTS FROM LANXESS DISTRIBUTION

Our Personal Care product range adds value to your cosmetic formulations. Emollients for perfect skin feel or anti-aging actives – we help to make your formulation special.

PUROLAN® – high-purity ingredients

Isoparaffins, such as **PUROLAN® IDD** are emollients obtained via sophisticated multi-step synthesis. Unlike paraffins from refined crude oil, the synthesis route leads to high-purity hydrocarbons with precisely defined chain length. These products are colorless, odorless and non-comedogenic. They are suitable for a wide range of cosmetic applications. **PUROLAN®** Isoparaffins are available in four types, varying in volatility and viscosity.

PUROLAN® Glucan is a powerful, completely natural anti-aging active. Usually yeast glucan, the most active type of glucan, is not soluble. Thanks to an innovative process, it is now available as a stable aqueous dispersion.

Our portfolio also includes a range of diols that are truly multifunctional. They can be used as humectants, solvents and spreading agents and work synergistically with preservatives. **PUROLAN® PD-LO** and **PUROLAN® HD-LO** are suitable for formulations with low fragrance content due to their low odor. **PUROLAN® PD-LO natural** is a renewable alternative for organic formulations.

PUROLAN® TiO2 A titanium dioxide pigment is extremely pure and provides excellent, consistent effects in color cosmetics.

PUROLAN® ZnO is an efficient sun screen filter, in particular against UVA radiation. It shows extremely low whitening and has a very low content of heavy metals. A version coated with dimethicone, **PUROLAN® ZnO coated**, is also available.

Solbrol® – performance for reliable preservation

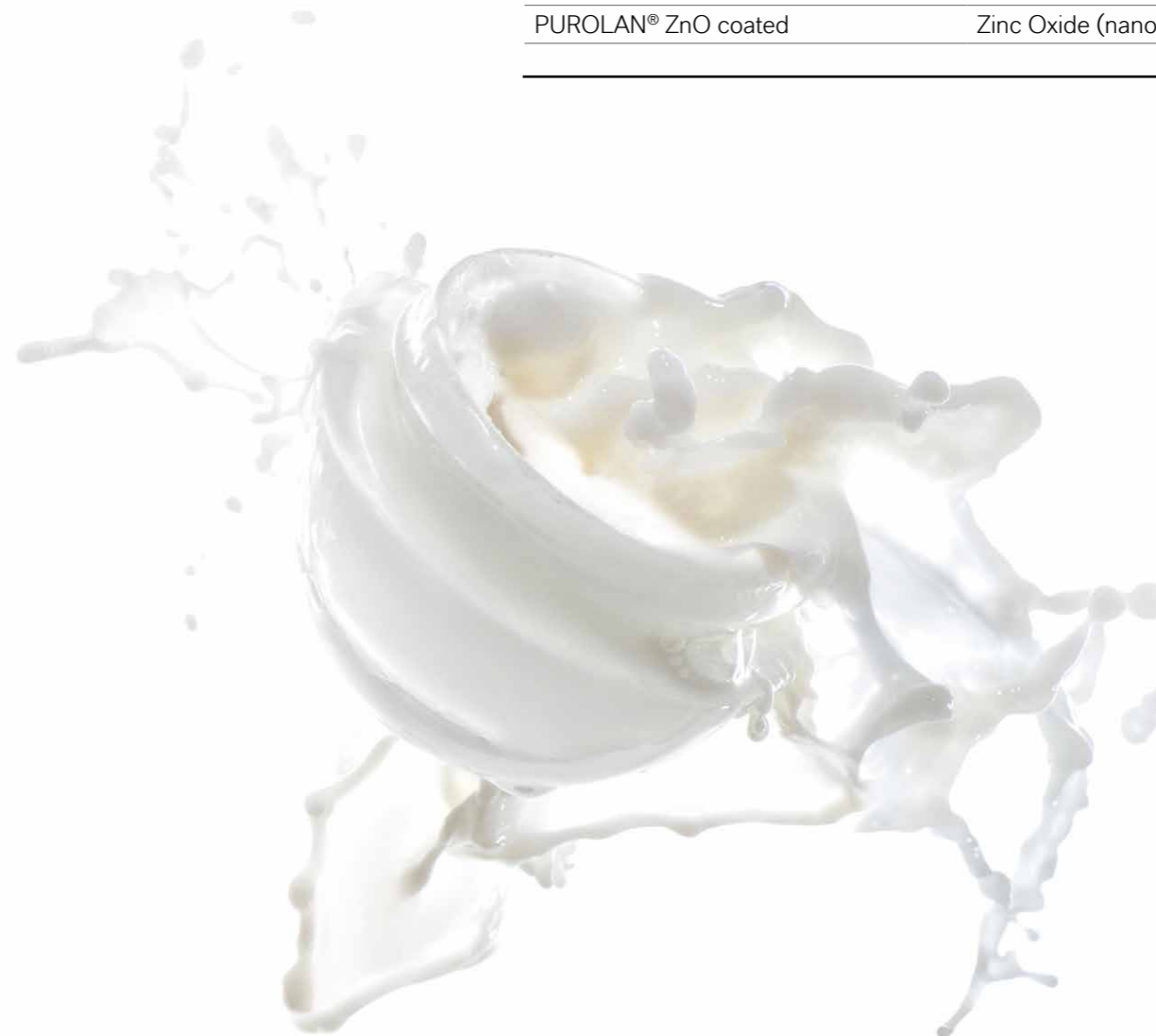
Our **Solbrol®** range comprises cosmetic preservatives. It includes the proven class of parabens as well as paraben-free solutions. The range also includes specially designed blends for high pH values. Blends suitable for natural formulations are also available.

Skin Care

Isoparaffins like **PUROLAN® IDD**, **IHD** and **IEC** significantly improve the skin feel and spreadability of creams and lotions. In particular they can support or even replace silicones in these applications. **PUROLAN® Triacetin** has a proven track record as a highly efficient pH stabilizer when formulating with urea. **PUROLAN® Glucan** is an effective active for anti-aging

formulations. Its ability to support the dermal immune system makes it an ideal ingredient for sun care products, reducing UV-induced damage. **PUROLAN® ZnO** and **PUROLAN® ZnO coated** are efficient sun screen filters, in particular against UVA radiation.

Trade Name	INCI Name	Function
PUROLAN® IDD	Isododecane	emollient
PUROLAN® IHD	Isohexadecane	emollient
PUROLAN® IEC	Isoeicosane	emollient
PUROLAN® Glucan	Yeast Glucan, Aqua	active
PUROLAN® Triacetin	Triacetin	solvent
PUROLAN® ZnO	Zinc Oxide (nano)	UV filter
PUROLAN® ZnO coated	Zinc Oxide (nano), Dimethicone	UV filter



Hair Care

Silicone replacement with Isoparaffins, such as **PUROLAN® IDD**, is possible not only in skin care but also in hair care formulations. Isoparaffins act as conditioners, moisturizers and help control frizz. In shampoos they help to reduce the drying time of wet hair.

Trade Name	INCI Name	Function
PUROLAN® IDD	Isododecane	solvent
PUROLAN® IEC	Isoeicosane	solvent, emollient

Nail Care

PUROLAN® Triacetin, **PUROLAN® TP**, **PUROLAN® ETSA** and the citrates **PUROLAN® ATBC** and **PUROLAN® TEC** are effective plasticizers that can replace phthalates in nail varnishes.

Trade Name	INCI Name	Function
PUROLAN® TEC	Triethyl Citrate	plasticizer
PUROLAN® ATBC	Acetyl Tributyl Citrate	plasticizer
PUROLAN® Triacetin	Triacetin	solvent, plasticizer
PUROLAN® TP	Triphenyl Phosphate	plasticizer
PUROLAN® ETSA	Ethyl Tosylamide	plasticizer
PUROLAN® TiO2	Titanium Dioxide (Anatase)	pigment



Color Cosmetics

PUROLAN® IDD and **PUROLAN® IOC** are perfect solvents for fast drying formulations like mascara, thanks to their high volatility.

PUROLAN® TiO2 A is a high-purity anatase titanium dioxide pigment which provides an excellent whitening effect for decorative cosmetics.

Trade Name	INCI Name	Function
PUROLAN® IOC	Isooctane	solvent
PUROLAN® IDD	Isododecane	solvent
PUROLAN® IHD	Isohexadecane	emollient
PUROLAN® TiO2 A	Titanium Dioxide (Anatase)	pigment

Deodorants

PUROLAN® TEC is a key ingredient for deodorants, especially for mineral-free formulations. It reduces odor by effectively blocking the enzymatic decomposition of sweat.

Trade Name	INCI Name	Function
PUROLAN® TEC	Triethyl Citrate	masking



Flavors & Fragrances

Our portfolio includes both fragrances as well as formulation ingredients. The fragrances are used for their own aroma and contribution to the final scent of a fragrance composition, these fragrance ingredients are usually not converted and

form part of the final formulation. The formulation products are used in the final manufacturing step during blending. They are auxiliary products, usually with no inherent scent and comprise solvents, carriers and stabilizers.

Trade Name	INCI Name	Function
PUROLAN® AC	Benzyl Acetate	fragrance ingredient
PUROLAN® AL	Benzaldehyde	fragrance ingredient
PUROLAN® BB	Benzyl Benzoate	solvent
PUROLAN® CA	Cinnamal	fragrance ingredient
PUROLAN® DPO	Diphenyl Ether	fragrance ingredient
PUROLAN® TEC	Triethyl Citrate	solvent
PUROLAN® Triacetin	Triacetin	solvent



Preservatives and Synergists

Due to their proven safety profile and efficacy, parabens are used in nearly all cosmetic applications. PUROLAN® PE and PUROLAN® BA are ideal solvents for preservative blends. Their performance is significantly improved in combination with organic acids or their respective salts, like Solbro® BZ (Benzoic Acid), Solbro® BZ Na (Sodium Benzoate) and Solbro® SC Na (Sodium Salicylate). Solbro® LB2 represents an optimized solution of organic acids. It offers high efficacy both against bacteria and fungi, especially at low pH values. For preservation also of alkaline formulations, Solbro® TP is an ex-

cellent choice. Solbro® CP is a protection solution especially for challenging applications. Solbro® FFA and Solbro® FFA Plus are natural blends based on fruit acids. All ingredients are renewable. Solbro® FFA offers good protection against microbes and is particularly effective against bacteria. Solbro® FFA Plus shows stronger performance, in particular against fungi. It is suitable for protecting even challenging applications like wet wipes. The table below shows application areas in which the respective products are commonly used. Please note that this does not necessarily exclude the suitability for other uses.

Trade Name	INCI Name	Skin Care	Hair Care	Color Cosmetics	Fragrances	Oral Care	Deodorants
PUROLAN® BA	Benzyl Alcohol	X	X			X	X
PUROLAN® HD-LO	1,2-Hexanediol	X	X	X			
PUROLAN® OD	Caprylyl Glycol	X	X	X			
PUROLAN® PD-LO	Pentylene Glycol	X	X	X			
PUROLAN® PD-LO natural	Pentylene Glycol	X	X	X			
PUROLAN® PE	Phenoxyethanol	X	X				X
Solbro® A	Ethylparaben	X	X	X		X	X
Solbro® BZ*	Benzoic Acid	X	X	X	X	X	X
Solbro® BZ Na	Sodium Benzoate	X	X	X	X	X	X
Solbro® FFA	Aqua, Lactic Acid, Propanediol, Citric Acid, Tartaric Acid, Gluconic Acid	X	X	X	X	X	X
Solbro® FFA Plus	Aqua, Lactic Acid, Phenylpropanol, Propanediol, Citric Acid, Tartaric Acid, Gluconic Acid	X	X	X	X	X	X
Solbro® M	Methylparaben	X	X	X		X	X
Solbro® M Na	Sodium Methylparaben	X	X	X		X	X
Solbro® P	Propylparaben	X	X	X		X	X
Solbro® P Na	Sodium Propylparaben	X	X	X		X	X
Solbro® SC Na	Sodium Salicylate	X	X	X			
Solbro® CP	Caprylyl Glycol, Phenethyl Alcohol	X	X	X			X
Solbro® LB2	Dehydroacetic Acid, Benzoic Acid, Aqua, Benzyl Alcohol	X	X				
Solbro® PEH	Phenoxyethanol, Ethylhexylglycerin	X	X	X			X
Solbro® SP	Propanediol, Salix Alba Bark Extract	X	X		X		X
Solbro® TP	Phenoxyethanol, Triethylene Glycol	X	X		X		X

* only for non-EU countries

PRODUCT OVERVIEW

Trade Name	INCI Name	CAS No.
Isoparaffins		
PUROLAN® IOC	Isooctane	540-84-1
PUROLAN® IDD	Isododecane	13475-82-6*
PUROLAN® IHD	Isohexadecane	93685-80-4
PUROLAN® IEC	Isoeicosane	93685-79-1
Actives		
PUROLAN® Glucan	Yeast Betaglucan, Aqua	53238-80-5
UV filters		
PUROLAN® ZnO	Zinc Oxide (nano)	1314-13-2
PUROLAN® ZnO coated	Zinc Oxide (nano), Dimethicone	1314-13-2, 63148-62-9
Color pigments		
PUROLAN® TiO2 A	Titanium Dioxide (Anatase)	13463-67-7
Esters		
PUROLAN® TEC	Triethyl Citrate	77-93-0
PUROLAN® ATBC	Acetyl Tributyl Citrate	77-90-7
PUROLAN® Triacetin	Triacetin	102-76-1
PUROLAN® TP	Triphenyl Phosphate	115-86-6
PUROLAN® ETSA	Ethyl Tosylamide	8047-99-2
Aroma chemicals		
PUROLAN® AC	Benzyl Acetate	140-11-4
PUROLAN® AL	Benzaldehyde	100-52-7
PUROLAN® BB	Benzyl Benzoate	120-51-4
PUROLAN® CA	Cinnamal	104-55-2
PUROLAN® DPO	Diphenyl Ether	101-84-8

* alternative CAS-Nr. 93685-81-5

Trade Name	INCI Name	CAS No.
Preservatives and Synergists		
Parabens		
SolbroL® A	Ethylparaben	120-47-8
SolbroL® M	Methylparaben	99-76-3
SolbroL® M Na	Sodium Methylparaben	5026-62-0
SolbroL® P	Propylparaben	94-13-3
SolbroL® P Na	Sodium Propylparaben	35285-69-9
Paraben-free single ingredients		
SolbroL® BZ*	Benzoic Acid	65-85-0
SolbroL® BZ Na	Sodium Benzoate	532-32-1
SolbroL® SC Na	Sodium Salicylate	54-21-7
PUROLAN® BA	Benzyl Alcohol	100-51-6
PUROLAN® PE	Phenoxyethanol	122-99-6
Paraben-free blends		
SolbroL® LB2	Dehydroacetic Acid, Benzoic Acid, Aqua, Benzyl Alcohol	–
SolbroL® PEH	Phenoxyethanol, Ethylhexylglycerin	–
SolbroL® SP	Propanediol, Salix Alba Bark Extract	–
SolbroL® TP	Phenoxyethanol, Triethylene Glycol	–
Synergists		
SolbroL® CP	Caprylyl Glycol, Phenethyl Alcohol	–
SolbroL® FFA	Aqua, Lactic Acid, Propanediol, Citric Acid, Tartaric Acid, Gluconic Acid	–
SolbroL® FFA Plus	Aqua, Lactic Acid, Phenylpropanol, Propanediol, Citric Acid, Tartaric Acid, Gluconic Acid	–
PUROLAN® PD-LO**	Pentylene Glycol	5343-92-0
PUROLAN® PD-LO natural**	Pentylene Glycol	5343-92-0
PUROLAN® HD-LO**	1,2-Hexanediol	6920-22-5
PUROLAN® OD	Caprylyl Glycol	1117-86-8

* only for non-EU countries

** LO = low odor grade

LANXESS

LANXESS Distribution GmbH

LANXESS Distribution GmbH

Chempark Leverkusen
Kaiser-Wilhelm-Allee 40
51369 Leverkusen
Germany

Tel.: +49 (0) 221 8885 2390

www.purolan.com
www.lanxess-distribution.com

Health and safety information

Appropriate documentation was compiled with information on the health and safety measures that have to be observed in handling the LANXESS products mentioned in this brochure. For materials mentioned here that are not LANXESS products, the operational hygiene and other safety measures recommended by the respective manufacturers must be observed. Before working with these products, you must read and familiarise yourself with the available information on their dangers, proper use and handling. This point is of decisive importance.

Information is available in various forms: such as safety data sheets, product information and product labels. Please contact your LANXESS representative in Germany or the Department of Regulatory Affairs and Product Safety of LANXESS Deutschland. For business in the USA, please contact the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, Pennsylvania.

Information on Regulatory Compliance

For some end use purposes of the products found in this brochure, the applicable regulations must be observed, including those of the FDA, BfR, NSF, USDA and CPSC. If you have any questions regarding the approval status of these products, please contact your representative at LANXESS Deutschland GmbH or the Department of Regulatory Affairs and Product Safety of LANXESS Deutschland GmbH or, for business in the USA, your representative at LANXESS Corporation, the LANXESS Regulatory Affairs Manager in Pittsburgh, Pennsylvania.

How and for which purposes you utilise our products, our technical support and our information (oral, written or through product assessments) is beyond our control. The same applies for suggested formulations and recommendations. Therefore it is indispensable that you check our products, our technical support and our information for their suitability for the intended processes and purposes. The application-specific analysis must encompass at least suitability tests in regard to technical as well as health, safety and environmental aspects. Such testing has not necessarily been done by us. Unless agreed to otherwise in writing, all products are sold exclusively in accordance with our general terms and conditions for sale and delivery. Information and technical support are provided without warranty (we reserve the right to make changes at any time). It is expressly agreed that you release us from any possible liability resulting from the use of our products, technical support and information due to fault, contract or other reasons and that you assume this liability yourself.

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