Focusing on your needs with platform solutions.

Pharma Solutions Product Overview 2017

www.pharma.basf.com

BASF
We create chemistry

Delivering what matters

We produce excipients and active ingredients of outstanding quality and performance. Our team of experienced industry specialists supports you in developing effective, reliable formulations – giving you a vital advantage in a highly demanding market.

Equipped with an in-depth understanding of multiple industries, technologies, and applications, we have the skills and resources to make drug manufacturing and drug delivery more efficient, robust, and cost-effective. Whether you want to make your medicine more effective, safer, or just more patient-friendly, BASF has the solution you need. This brochure presents an overview of our leading-edge products, grouped in the following platforms: Instant & Modified Release, Solubilization, Skin Delivery, Softgels and Biologic Solutions. Details on functionality are clearly provided for each product – allowing you to quickly and easily find the right answers to your pharmaceutical formulation challenges.

Instant & Modified Release

Solubilization

Skin Delivery

Softgels

Biologic Solutions

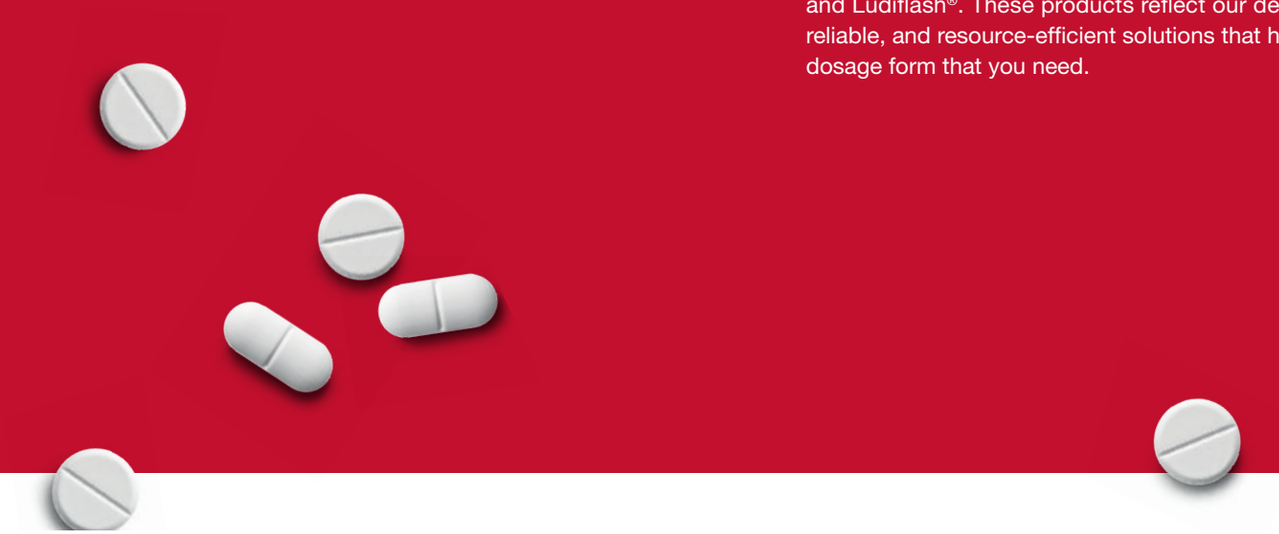
APIs

Ensuring the precision you need – every time

Instant & Modified Release

BASF is the first choice for value-adding formulations along the entire lifecycle. With our rich portfolio of instant and modified release solutions we offer an unprecedented range of functionalities. Our high-quality, industry-leading products enable you to formulate pharmaceuticals with the exact release properties you desire. This ensures the right results every time – giving you that all-important competitive edge.

We are a trusted industry player with a proven track record, going back to the invention of PVP (marketed under the brand name Kollidon®) in the 1930s. We have continued to expand and enhance our portfolio ever since – with innovative, multifunctional excipients such as Kollicoat® IR, Kollidon® VA64, and Ludiflash®. These products reflect our dedication to highly effective, reliable, and resource-efficient solutions that help you confidently design the dosage form that you need.



Core formulation

Functionality	Process			Delivery form			Product	
	Direct compression	Dry granulation (incl. roll compaction)	Wet granulation	Tablets & capsules	Particles (granules & multiparticulates, pellets)	ODT		
Binding			■	■	■		Kollidon® 25/Kollidon® 30	P
			■	■	■		Kollidon® 30 LP	P
			■	■	■		Kollidon® 90 F	P
			■	■	■		Kollicoat® IR	
	■	■	■	■	■		Kollidon® VA64	
	■	■		■	■		Kollidon® VA64 Fine	
	■	■			■		Kollidon® CL-M	
	■	■		■	■	■	Kollidon® CL-SF	P
Disintegration	■		■	■	■		Kollidon® CL	P
	■		■	■	■	■	Kollidon® CL-F	P
	■	■	■	■	■	■	Kollidon® CL-SF	P
		■		■	■		Kollidon® CL-M	
Matrices & fillers**	■		■	■	■		Kollidon® SR	
	■	■		■	■	■	Ludiflash®	
	■	■		■	■		Ludipress®	
	■	■		■	■		Ludipress® LCE	
Wetting-dissolution enhancement	■	■		■			Kolliphor® SLS Fine	
	■	■		■			Kolliphor® P188 micro	
	■	■		■			Kolliphor® P407 micro	
			■	■			Kolliphor® SLS	
			■	■			Kolliphor® P188	
			■	■			Kolliphor® P407	
Lubrication	■	■		■			Kolliphor® SLS Fine	
	■	■		■			Kolliphor® P188 micro	
	■	■		■			Kolliphor® P407 micro	
	■	■		■			Kolliwax® SA	
	■	■		■			Kolliwax® S Fine	
	■	■		■			Kolliwax® HCO	

Description	Monograph title*/Chemical name
The original. Medium molecular weight binder with low peroxide level thanks to Peroxeal packaging leading to extended shelf life.	Ph. Eur., USP, JP: Povidone
Our low peroxide grade with antioxidants.	Ph. Eur., USP, JP: Povidone
High molecular weight binder with highest binding capacity.	Ph. Eur., USP, JP: Povidone
Powerful and peroxide free wet binder for oxidation-sensitive drugs.	Ph. Eur.: Macrogol Poly(vinyl alcohol) Grafted Copolymer; USP-NF: Ethylene Glycol and Vinyl Alcohol Graft Copolymer; JPE: Methacrylic Acid Copolymer LD
For direct compression, roller compaction and wet granulation, suitable for markets with higher humidity exposure.	Ph. Eur., USP: Copovidone; JPE: Copolyvidone
Highly efficient binder with fine particle size for roller compaction and direct compression. Suitable for markets with high humidity exposure.	Ph. Eur., USP: Copovidone; JP: Copolyvidone
Roller compaction and direct compression including slight disintegration functionality.	Ph. Eur., USP, JP: Crospovidone Type B
2 in 1 functionality – efficient dry binder & fast disintegrant suitable for roller compaction.	Ph. Eur., USP, JP: Crospovidone Type B
Maximum disintegration.	Ph. Eur., USP, JP: Crospovidone Type A
Balance of strong disintegration and optimal surface homogeneity.	Ph. Eur., USP, JP: Crospovidone Type A
Particularly suitable for small tablets and ODTs, providing very pleasant mouthfeel due to finer particles.	Ph. Eur., USP, JP: Crospovidone Type B
Disintegrant with micronized particles, delivering slight disintegration when used as binder.	Ph. Eur., USP, JP: Crospovidone Type B
For non-erodible matrices using direct compression.	80 % PVAc, 19 % Povidone, 0.8 % SLS, 0.2 % Silica
Ready-to-use ODT solution with superior mouthfeel.	90 % mannitol, 5 % crospovidone, 5 % polyvinyl acetate
Ready-to-use direct compression solution for tablets.	93 % Lactose, 3.5 % Povidone, 3.5 % Crospovidone
Ready-to-use direct compression solution for lozenges, chewables and effervescent tablets.	96.5% Lactose, 3.5 % Povidone
Wetting agent in tabletting, reducing disintegration time. Particularly suitable for direct compression.	Ph. Eur.: Sodium Laurilsulfate; USP-NF, JP: Sodium Lauryl Sulfate
Average particle size of 50 µm makes it effective dissolution enhancer, lubricant & wetting agent in direct compression.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
Average particle size of 50 µm makes it effective dissolution enhancer, lubricant & wetting agent in direct compression.	Ph. Eur., USP-NF: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxypropylene (67) glycol
Wetting agent in wet granulation, reduces disintegration time.	Ph. Eur.: Sodium Laurilsulfate; USP-NF, JP: Sodium Lauryl Sulfate
Dissolution enhancer, lubricant & wetting agent particularly suitable for wet granulation.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
Dissolution enhancer, lubricant & wetting agent particularly suitable for wet granulation.	Ph. Eur., USP-NF: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxypropylene (67) glycol
Hydrophilic lubricant. Due to its water solubility particularly suitable for effervescent tablets.	Ph. Eur.: Sodium Laurilsulfate; USP-NF, JP: Sodium Lauryl Sulfate
Hydrophilic lubricant. Due to its water solubility particularly suitable for effervescent tablets.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
Hydrophilic lubricant. Due to its water solubility particularly suitable for effervescent tablets.	Ph. Eur., USP-NF: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxypropylene (67) glycol
Lipophilic lubricant, especially for sensitive acidic APIs.	Ph. Eur., USP-NF, JP: Stearyl Alcohol
Lipophilic lubricant. Particularly suitable for sensitive APIs.	Ph. Eur., USP-NF, JP: Stearic Acid 50
Lipophilic lubricant. Particularly suitable for sensitive APIs.	Ph. Eur., Castor Oil, hydrogenated, USP-NF: Hydrogenated Castor Oil, JPE: Hydrogenated Oil

P Packed in PeroXeal™ packaging ***** Monograph references were updated at time of printing, please visit us online for the latest status ****** For matrices in solid dispersions please refer to our Solubilization platform

Coating formulation

Functionality	Process		Release			Delivery form		Product
	Aqueous	Other**	Instant	Enteric	Sustained	Tablets & capsules	Particles (granules & multiparticles, pellets)	
Film forming	■	■	■			■	■	Kollicoat® IR
	■		■			■	■	Kollicoat® Protect
	■		■			■	■	Kollicoat® Smartseal 30 D
	■			■		■	■	Kollicoat® MAE 30 DP
	■	■		■		■	■	Kollicoat® MAE 100 P
	■	■		■		■	■	Kollicoat® MAE 100-55
	■				■	■	■	Kollicoat® SR 30 D
		■			■		■	Kolliwax® HCO
	■	■	■			■	■	Kollidon® VA64
Plasticizing						■	■	Kollisolv® GTA
						■	■	Kolliphor® RH40
						■	■	Kollisolv® PG
						■	■	Kollisolv® PEG 300
						■	■	Kollisolv® PEG 400
						■	■	Kollisolv® P124
Taste masking	■		■			■	■	Kollicoat® Smartseal 30 D
	■		■			■	■	Kollicoat® SR 30 D
	■			■		■	■	Kollicoat® MAE 30 DP

Description	Monograph title*/Chemical name
Robust yet flexible water soluble instant release coating polymer. Efficient and easy to handle due to low viscosity and high flexibility.	Ph. Eur.: Macrogol Poly(vinyl alcohol) Grafted Copolymer; USP-NF: Ethylene Glycol and Vinyl Alcohol Graft Copolymer; JPE: Polyvinyl alcohol-polyethylene glycol graft copolymer
Instant release coating polymer for the formulation of of oxygen and moisture protective coatings.	Excipient based on Kollicoat® IR and monographed raw materials
Highly effective taste masking at very low coating levels. Specifically suitable for pellets & particles for ODTs due to easy and non-tacky processability.	Methyl-methacrylate - diethylaminoethyl methacrylate co-polymer
Enteric coating with release above pH 5.5, available as a 30 % solids content dispersion.	Ph. Eur.: Methacrylic Acid – Ethyl Acrylate copolymer (1:1) dispersion 30 per cent; USP: Methacrylic Acid Copolymer Dispersion; JPE: Methacrylic Acid Copolymer LD
Enteric coating with release above pH 5.5, available as partially preneutralized powder saving you the neutralization step.	Ph. Eur.: Methacrylic Acid – Ethyl Acrylate copolymer (1:1), Type B; USP-NF: Partially-Neutralized Methacrylic Acid and Ethyl Acrylate copolymer
Non-neutralized, fast redispersing, completely dust-free powder grade for aqueous & organic coating.	Ph.Eur.: Methacrylic Acid - Ethyl Acrylate Copolymer (1:1) Type A; USP-NF: Methacrylic Acid and Ethyl Acrylate Copolymer; JPE: Dried Methacrylic Acid Copolymer LD
pH-independent sustained release film coating polymer used to film coat small particles, pellets, granules and tablets.	Ph. Eur.: Poly(vinyl acetate) dispersion 30 per cent; USP: Polyvinyl Acetate Dispersion
For sustained release melt coating.	Ph. Eur.: Castor Oil, hydrogenated; USP-NF: Hydrogenated Castor Oil; JP: Hydrogenated Oil
Aqueous sugar film coating for thinner films and a faster process. Organic subcoating for highly moisture sensitive cores.	Ph. Eur., USP: Copovidone; JPE: Copolyvidone
Plasticizer particularly suitable for tablet coatings.	Ph. Eur., USP: Triacetin
Plasticizer used in coatings and in solid polymeric matrices.	Ph. Eur.: Macrogolglycerol hydroxystearate; USP: Polyoxyl 40 Hydrogenated Caster Oil
Liquid plasticizer with high ADI.	Ph. Eur., JP, FCC, USP: Propylene Glycol
Liquid plasticizer commonly used in tablet coatings. Also used as solvent in liquid formulations.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
Liquid plasticizer commonly used in tablet coatings. Also used as solvent in liquid formulations.	Ph.Eur: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
Liquid plasticizer commonly used in tablet coatings.	Ph. Eur., USP-NF: Poloxamer 124; JPE: Polyoxyethylene (20) Polyoxypropylene (20) Glycol
Highly effective taste masking, providing efficacy already at very low coating levels. Specifically suitable for pellets and particles for ODTs due to its easy and non-tacky processability.	Methyl-methacrylate – diethylaminoethyl methacrylate co-polymer
Thin coating layer provides basic taste masking properties.	Ph. Eur.: Poly(vinyl acetate) dispersion 30 per cent; USP: Polyvinyl Acetate Dispersion
Thin coating layer masks taste during release in intestine; suitable for particles.	Ph. Eur.: Methacrylic Acid – Ethyl Acrylate copolymer (1:1) dispersion 30 per cent; USP: Methacrylic Acid Copolymer Dispersion; JPE: Methacrylic Acid Copolymer LD

*Monograph references were updated at time of printing, please visit us online for the latest status **i. e. Drug-powder layering, sugar coating, melt coating, organic film coating

Coating formulation

Functionality	Process		Release			Delivery form		Product	
	Aqueous	Other**	Instant	Enteric	Sustained	Tablets & capsules	Particles (granules & multiparticles, pellets)		
Moisture protection	■		■			■	■	Kollicoat® Protect	
	■		■			■	■	Kollicoat® Smartseal 30 D	
	■		■			■	■	Kollidon® VA64	
Pore forming	■		■			■	■	Kollicoat® IR	
	■			■		■	■	Kollicoat® MAE 30 DP	
	■	■		■		■	■	Kollicoat® MAE 100 P	
	■		■			■	■	Kollidon® 12 PF	P
	■		■			■	■	Kollidon® 17 PF Kollidon® 25 Kollidon® 30 Kollidon® 90 F	P P P P
	■		■			■	■	Kollidon® VA64	
	■				■	■	■	Kolliwax® HCO	
	■	■			■	■	■	Kolliwax® S Fine	

Description	Monograph title*/Chemical name
Provides an effective moisture barrier in combination with pigments or talc.	Excipient based on Kollicoat® IR and monographed raw materials
Very low water vapor permeation; can be applied as clear coating to provide full moisture protection.	Methyl-methacrylate – diethylaminoethyl methacrylate co-polymer
In combination with Kollicoat® IR or Kollicoat® Protect, Kollidon® VA64 further reduces the water vapor permeation rate.	Ph. Eur., USP: Copovidone; JPE: Copolyvidone
Peroxide free water-soluble pore former for sustained release tablets and pellet coating.	Ph. Eur.: Macrogol Poly(vinyl alcohol) Grafted Copolymer; USP-NF: Ethylene Glycol and Vinyl Alcohol Graft Copolymer; JPE: Polyvinyl alcohol-polyethylene glycol graft copolymer
Aqueous dispersion for use as pore former for targeted opening in the intestine to avoid release in the stomach.	Ph. Eur.: Methacrylic Acid - Ethyl Acrylate copolymer (1:1) dispersion 30 per cent; USP: Methacrylic Acid Copolymer Dispersion; JPE: Methacrylic Acid Copolymer LD
Pre-neutralized powderous pore former for targeted opening in the intestine to avoid release in the stomach.	Ph. Eur.: Methacrylic Acid - Ethyl Acrylate copolymer (1:1), Type B; USP-NF: Partially-Neutralized Methacrylic Acid and Ethyl Acrylate copolymer
Soluble pore formers for sustained release tablet or pellet coating. Kollidon® 30 is already component of Kollicoat® SR 30 D.	Ph. Eur., USP, JP: Povidone
Soluble pore formers for sustained release tablet or pellet coating. Kollidon® 30 is already component of Kollicoat® SR 30 D.	Ph. Eur., USP, JP: Povidone
Soluble pore former for sustained release tablet coatings.	Ph. Eur., USP: Copovidone; JPE: Copolyvidone
Slows down drug release when used as pore former in sustained release formulations.	Ph. Eur.: Castor Oil, hydrogenated; USP-NF: Hydrogenated Castor Oil; JP: Hydrogenated Oil
In combination with Kollicoat® SR 30 D, Kolliwax® S Fine creates sustained release profiles.	Ph. Eur., USP-NF, JP: Stearic Acid 50

P Packed in PeroXeal™ packaging ***** Monograph references were updated at time of printing, please visit us online for the latest status ****** For matrices in solid dispersions please refer to our Solubilization platform

Unlocking the full potential of your API

Solubilization

Poorly soluble drugs are one of the major challenges pharmaceutical manufacturers are facing. We offer a wide range of highly effective solubilization excipients, and have an unparalleled understanding of the corresponding process technologies. This makes us the leading partner in resolving bioavailability and solubility challenges by unlocking the full potential of your API.

This unique combination enables you to achieve effective solubilization and bioavailability in various dosage forms – from solid dispersions to lipid-based drug delivery systems. Moreover, we are a highly successful pioneer in the application of hot-melt extrusion technology in pharmaceutical production – helping you to achieve effectiveness.

Solid dispersions

Functionality	Product	Description	Process				Monograph title*/Chemical name
			Physical mixing	Melt granulation	Spray drying	HME**	
Solubility enhancement	Soluplus®	Polymer designed for solid solutions. Soluplus® can increase solubility and bioavailability. Ideal for hot melt extrusion (HME).	■	■	■	■	Polyvinyl caprolactam – polyvinyl acetate – polyethylene glycol graft copolymer
	Kolliphor® RH40	Nonionic solubilizer.	■	■	■	■	Ph. Eur.: Macrogolglycerol hydroxystearate; USP: Polyoxyl 40 Hydrogenated Caster Oil
	Kolliphor® HS 15	Nonionic solubilizer.	■	■	■	■	Ph. Eur.: Macrogol 15 Hydroxystearate; USP-NF: Polyoxyl 15 Hydroxystearate
	Kolliphor® EL	Nonionic solubilizer.	■	■	■	■	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP-NF: Polyoxyl 35 Castor Oil; JPE: Polyoxyl 35 Castor Oil
	Kolliphor® ELP	Purified Kollidon® EL, especially for sensitive active ingredients.	■	■	■	■	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP-NF: Polyoxyl 35 Castor Oil
	Kolliphor® SLS	Ionic solubilizer and emulsifier.	■	■	■	■	Ph. Eur.: Sodium Laurilsulfate; USP-NF,JP: Sodium Lauryl Sulfate
	Kolliphor® P188	Polymeric solubilizer, emulsifier and plasticizer.	■	■	■	■	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
	Kolliphor® P338	Polymeric solubilizer, emulsifier and plasticizer.	■	■	■	■	Ph. Eur., USP-NF: Poloxamer 338
	Kolliphor® P407	Polymeric solubilizer, emulsifier and plasticizer.	■	■	■	■	Ph. Eur., USP-NF: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxypropylene (67) glycol
	Kolliphor® PS 20	Nonionic solubilizer, emulsifier and co-emulsifier.	■	■	■	■	Ph. Eur., USP-NF: Polysorbate 20
	Kolliphor® PS 60	Nonionic solubilizer, emulsifier and co-emulsifier.	■	■	■	■	Ph. Eur., USP-NF, JPE: Polysorbate 60
	Kolliphor® PS 80	Nonionic solubilizer, emulsifier and co-emulsifier.	■	■	■	■	Ph. Eur., USP-NF: Polysorbate 80
	Kollidon® 12 PF **P**	Endotoxin tested with compound related validated limits.	■	■	■	■	Ph. Eur., USP, JP: Povidone
	Kollidon® 17 PF **P**	Endotoxin tested with compound related validated limits.	■	■	■	■	Ph. Eur., USP, JP: Povidone
	Kollidon® 25 **P** Kollidon® 30 **P**	Medium-molecular weight povidone for solubilization, dispersion and Oral liquid and oral semi-solid formulations crystallization inhibition.	■		■	■	Ph. Eur., USP, JP: Povidone
	Kollidon® 90 F **P**	High-molecular weight povidone for solubilization, dispersion and crystallization inhibition.	■		■	■	Ph. Eur., USP, JP: Povidone

Functionality	Product	Technology				Description	Monograph title*/Chemical name
		Physical mixing	Melt granulation	Spray drying	HME**		
Matrices	Soluplus®	■	■	■	■	Polymer designed for solid solutions. Provides matrix and can increase solubility and bioavailability. Ideal for HME.	Polyvinyl caprolactam – polyvinyl acetate – polyethylene glycol graft copolymer
	Kollidon® VA64		■	■	■	Erodible instant release matrix, solubilizer, dispersant, crystallization inhibitor. Commonly used in HME.	Ph. Eur., USP: Copovidone; JPE: Copolyvidone
	Kollidon® SR		■	■	■	Controlled release matrix.	80 % Polyvinyl acetate and 19% povidone, 0.8 % lauryl sulfate & 0.2 % silica
	Kollidon® 12 PF **P**		■	■	■	Endotoxin tested with compound related validated limits. Used as a solubilizing matrix, crystallization inhibitor and stabilizer.	Ph. Eur., USP, JP: Povidone
	Kollidon® 17 PF **P**		■	■	■	Endotoxin tested with compound related validated limits. Used as a solubilizing matrix, crystallization inhibitor and stabilizer.	Ph. Eur., USP, JP: Povidone
	Kollidon® 25 **P**		■	■	■	For instant release matrices including solubilization and crystallization inhibition.	Ph. Eur., USP, JP: Povidone
	Kollidon® 30 **P**			■		For instant release matrices including solubilization and crystallization inhibition. Suitable for spray drying.	Ph. Eur., USP, JP: Povidone

P Packed in PeroXeal™ packaging ***** Monograph references were updated at time of printing, please visit us online for the latest status ****** Hot melt extrusion

Solutions & gels

Functionality	Product	Description	Monograph title*/Chemical name
Solubilizers & surfactants	Soluplus®	Polymer specifically designed to increase solubility and bioavailability of poorly soluble drugs.	Polyvinyl caprolactam – polyvinyl acetate – polyethylene glycol graft copolymer
	Kolliphor® RH40	Nonionic solubilizer and emulsifier.	Ph. Eur.: Macrogolglycerol hydroxystearate; USP: Polyoxyl 40 Hydrogenated Caster Oil
	Kolliphor® HS 15	Nonionic solubilizer and emulsifier.	Ph. Eur.: Macrogol 15 Hydroxystearate; USP / NF: Polyoxyl 15 Hydroxystearate
	Kolliphor® EL	Nonionic solubilizer and emulsifier.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP / NF: Polyoxyl 35 Castor Oil
	Kolliphor® ELP	Purified Kollidon® EL, especially for sensitive active ingredients to improve their stability.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP / NF: Polyoxyl 35 Castor Oil
	Kolliphor® SLS	Ionic solubilizer and emulsifier.	Ph. Eur.: Sodium Laurilsulfate; USP/NF,JP: Sodium Lauryl Sulfate
	Kolliphor® P188	Polymeric solubilizer, emulsifier and plasticizer.	Ph. Eur., USP / NF, JP: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
	Kolliphor® P338	Polymeric solubilizer, emulsifier and plasticizer.	Ph. Eur., USP / NF, JP: Poloxamer 338
	Kolliphor® P407	Polymeric solubilizer, emulsifier and plasticizer.	Ph. Eur., USP / NF, JP: Poloxamer 407; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
	Kolliphor® PS 20	Nonionic solubilizer, emulsifier and co-emulsifier.	Ph. Eur., USP / NF: Polysorbate 20
	Kolliphor® PS 60	Nonionic solubilizer, emulsifier and co-emulsifier.	Ph. Eur., USP / NF, JPE: Polysorbate 60
	Kolliphor® PS 80	Nonionic solubilizer, emulsifier and co-emulsifier.	Ph. Eur., USP / NF: Polysorbate 80
Crystallization inhibitor	Kollidon® 12 PF	Low-molecular weight povidone that is endotoxin tested with compound related validated limits. Crystallization inhibitor and stabilizer in injectables and ophthalmic products.	Ph. Eur., USP, JP: Povidone
	Kollidon® 17 PF **P**	Low-molecular weight povidone that is endotoxin tested with compound related validated limits. Crystallization inhibitor and stabilizer in injectables and ophthalmic products.	Ph. Eur., USP, JP: Povidone
	Kollidon® 25 **P**	Medium-molecular weight povidone used as a solubilizing agent, dispersant and crystallization inhibitor.	Ph. Eur., USP, JP: Povidone
	Kollidon® 30 **P**	Medium-molecular weight povidone used as a solubilizing agent, dispersant and crystallization inhibitor.	Ph. Eur., USP, JP: Povidone
	Kollidon® 90 F **P**	High-molecular weight povidone used as a solubilizing agent, dispersant and crystallization inhibitor.	Ph. Eur., USP, JP: Povidone
	Kollidon® VA 64	Solubilizing agent, dispersant and crystallization inhibitor.	Ph. Eur., USP: Copovidone; JEP: Copolyvidone

Functionality	Product	Description	Monograph title*/Chemical name
Solvents	Kollisolv® PG	Solvent for oral and topical applications.	Ph. Eur., USP, JP, FCC: Propylene Glycol
	Kollisolv® PEG 300	Solvent for oral and topical applications.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
	Kollisolv® PEG 400	Solvent for oral and topical applications.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® P124	Solvent for APIs, dispersing agent for liquid dispersions, stabilizer and co-emulsifier in semi-solid formulations.	Ph. Eur., USP / NF, JP: Poloxamer 124
	Kolllisolv® CAP	Solvent for lipophilic drugs.	Cetearyl ethylhexanone & Isopropyl myristate
	Kollisolv® GTA	Commonly used solvent.	Ph. Eur., USP: Triacetin
	Kollisolv® PYR	Solvent for injectables and oral formulations for animal health.	Ph. Eur.: Pyrrolidone
Viscosity enhancers	Kollidon® 90 F P	Enhances viscosity. Soluble in water and many organic solvents	Ph. Eur., USP, JP: Povidone
	Kolliphor® P407	Enhances viscosity. Thermoreversible gelling effect.	Ph. Eur., USP / NF, JP: Poloxamer 407; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
Gel formers	Kolliphor® P407	Enhances viscosity. Thermoreversible gelling effect.	Ph. Eur., USP / NF, JP: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxylpropylene (67) glycol
	Kolliphor® P188	Enhances viscosity. Thermoreversible gelling effect.	Ph. Eur., USP / NF, JP: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
	Kolliphor® P338	Enhances viscosity. Thermoreversible gelling effect.	Ph. Eur., USP / NF, JP: Poloxamer 338

P Packed in PeroXeal™ packaging.

Emulsions & micro emulsions, SEDDS, SMEDDS, SNEEDS

Functionality	Product	Description	Monograph title*/Chemical name
Emulsifiers/ Solubilizers	Kolliphor® RH40	Nonionic solubilizer.	Ph. Eur.: Macrogolglycerol hydroxystearate; USP: Polyoxyl 40 Hydrogenated Caster Oil
	Kolliphor® HS 15	Nonionic solubilizer in paste form used in combination with a matrix polymer.	Ph. Eur.: Macrogol 15 Hydroxystearate; USP / NF: Polyoxyl 15 Hydroxystearate
	Kolliphor® EL	Nonionic solubilizer.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP / NF: Polyoxyl 35 Castor Oil
	Kolliphor® ELP	Purified Kolliphor® EL, especially for sensitive active ingredients to improve their stability.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP / NF: Polyoxyl 35 Castor Oil
	Kolliphor® SLS	Ionic solubilizer and emulsifier.	Ph. Eur.: Sodium Laurilsulfate; USP/NF, JP: Sodium Lauryl Sulfate
	Kolliphor® P188	Polymeric solubilizer, emulsifier and plasticizer.	Ph. Eur., USP / NF, JP: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
	Kolliphor® P338	Polymeric solubilizer, emulsifier and plasticizer.	Ph. Eur., USP / NF, JP: Poloxamer 338
	Kolliphor® P407	Polymeric solubilizer, emulsifier and plasticizer.	Ph. Eur., USP / NF, JP: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxylpropylene (67) glycol
	Kolliphor® PS 20	Nonionic solubilizer, emulsifier and co-emulsifier.	Ph. Eur., USP / NF: Polysorbate 20
	Kolliphor® PS 60	Nonionic solubilizer, emulsifier and co-emulsifier.	Ph. Eur., USP / NF, JPE: Polysorbate 60
	Kolliphor® PS 80	Nonionic solubilizer, emulsifier and co-emulsifier.	Ph. Eur., USP / NF: Polysorbate 80
Solvents	Kollisolv® PG	Solvent for oral and topical applications.	Ph. Eur., USP, JP, FCC: Propylene Glycol
	Kollisolv® PEG 300	Solvent for oral and topical applications.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
	Kollisolv® PEG 400	Solvent for oral and topical applications.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® P124	Solvent for APIs, dispersing agent for liquid dispersions, stabilizer and co-emulsifier in semi-solid formulations.	Ph. Eur., USP / NF, JP: Poloxamer 124
	Kolllisolv® CAP	Solvent for lipophilic drugs.	Cetearyl ethylhexanone & Isopropyl myristate
	Kollisolv® GTA	Commonly used solvent.	Ph. Eur., USP / NF: Triacetin
	Kollisolv® PYR	Solvent for injectables and oral formulations for animal health.	Ph. Eur.: Pyrrolidone

Functionality	Product	Description	Monograph title*/Chemical name
Lipids	Kollisolv® MCT 70	Solubilizer for lipophilic drugs.	Ph. Eur.: Triglycerides, medium-chain, USP / NF: Medium-Chain Triglycerides
Co-solvents	Kollisolv® PEG 300	Solvent for oral and topical applications.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
	Kollisolv® PEG 400	Solvent for oral and topical applications.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® P124	Solvent for APIs, dispersing agent for liquid dispersions, stabilizer and co-emulsifier in semi-solid formulations.	Ph. Eur., USP / NF, JP: Poloxamer 124
	Kollisolv® GTA	Commonly used solvent.	Ph. Eur., USP: Triacetin
	Kollisolv® PYR	Solvent for injectables and oral formulations for animal health.	Ph. Eur.: Pyrrolidone

Suspensions

Functionality	Product	Description	Process			Monograph title*/Chemical name
			Physical mixing, e.g. wet granulation	Melt granulation	Spray drying	
Reduction of sedimentation	Kollidon®-CL-M	Reduces sedimentation by steric effects. Unsoluble.		■		Ph. Eur., USP, JP: Crospovidone Type B
	Kolliphor® P407	Thickening agent and gel former, as a co-emulsifier and viscosity enhancer in creams and liquid emulsions. Also stabilizes topically and orally administered suspensions and is used in tooth-pastes, gargles and mouthwashes. Used in sustained release formulations.	■	■	■	Ph. Eur., USP / NF, JP: Poloxamer 407; JPE: Polyoxyethylene (196) Polyoxylpropylene (67) glycol
	Kollidon® 90 F **P**	Reduces sedimentation by viscosity enhancement. Soluble in water and many organic solvents.	■		■	Ph. Eur., USP, JP: Povidone
Redispersing agent	Kollidon®-CL-M	Sedimentation inhibitor in suspensions.		■		Ph. Eur., USP, JP: Crospovidone Type B
	Kollidon® 90 F **P**	Reduces sedimentation by viscosity enhancement. Soluble in water and many organic solvents.	■		■	Ph. Eur., USP, JP: Povidone
	Kolliphor® HS 15	Nonionic solubilizer in paste form used in combination with a matrix polymer.	■	■	■	Ph. Eur.: Macrogol 15 Hydroxystearate; USP / NF: Polyoxyl 15 Hydroxystearate
	Kollidon® 12 PF **P**	Endotoxin tested with compound related validated limits.	■	■	■	Ph. Eur., USP, JP: Povidone
	Kollidon® 17 PF **P**	Endotoxin tested with compound related validated limits.	■	■	■	Ph. Eur., USP, JP: Povidone

P Packed in PeroXeal™ packaging.


Helping to fine-tune
your ideal composition

Skin Delivery

BASF offers an unparalleled portfolio of excipients for topical formulations, enabling customers to create the ideal skin delivery composition for each and every application. We are the preferred supplier for your skin delivery solutions.

We are committed to maintaining the highest level of quality across the product spectrum. Our range of solubilizers and penetration enhancers supports effective delivery of the target API – the number-one priority when designing any dermatological product. At the same time, we have focused on improving the mildness of formulations. And by extensively analyzing, refining, and enhancing the sensorial effects of each ingredient class, we can help our customers create products that increase patient compliance. What's more, BASF works closely with leading global organizations on the design, evaluation, and microstructure of semi-solid formulations.

Emulsions, ointments & gels

Functionality	Product	Description	Delivery form				Monograph title*/Chemical name
			Emulsions & creams	Ointments	Gels	Foams	
Emollients & solvents	Kollicream® 3C	Medium spreadability. Extremely mild. Solvent for lipophilic drugs. Enhances skin penetration.	■	■	■	■	Ph. Eur.: Cocoyl caprylocaprate, Coco-caprylate-caprate
	Kollicream® CP 15	Solid, slow spreading with rich feeling. Solvent for lipophilic drugs.	■	■			Ph. Eur: Cetyl palmitate 15
	Kollicream® DO	Medium spreadability. Solvent for lipophilic drugs. Enhances skin penetration.	■	■	■	■	Ph. Eur.: Decyl oleate
	Kollicream® IPM	Fast spreading with light & fresh feeling. Solvent for lipophilic drugs. Enhances skin penetration.	■	■	■	■	Ph. Eur., USP-NF: Isopropyl myristate
	Kollicream® OA	Medium spreadability. Solvent for lipophilic drugs. Enhances skin penetration.	■	■	■	■	Ph. Eur., USP-NF: Oleyl alcohol
	Kollicream® OD	Medium spreadability. Solvent for lipophilic drugs. Enhances skin penetration. Effective in exceptionally wide pH range.	■	■	■	■	Ph. Eur., USP-NF: Octyldodecanol
	Kollisolv® MCT 70	Oily solvent for some lipophilic drugs. Water barrier-repairing, emollient film-former on skin.	■	■	■	■	Ph. Eur.: Triglycerides, medium-chain USP-NF: Medium-Chain Triglycerides
	Kollisolv® PEG 300	Solubilizer for drugs. Forms anhydrous, hydrophilic ointments in conjunction with higher mol. weight PEG.	■	■	■	■	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
	Kollisolv® PEG 400	Solubilizer for drugs. Forms anhydrous, hydrophilic ointments in conjunction with higher mol. weight PEG.	■	■	■	■	Ph.Eur: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® GTA	Versatile water or oil miscible solvent.	■		■	■	Ph. Eur., USP: Triacetin
	Kollisolv® PG	Versatile hydrophilic solvent and humectant.	■	■	■	■	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
Skin penetration enhancement	Kollicream® DO	Skin penetration enhancer & medium spreadability emollient.	■	■	■	■	Ph. Eur.: Decyl oleate
	Kollicream® IPM	Skin penetration enhancer & fast spreading emollient.	■	■	■	■	Ph. Eur., USP-NF: Isopropyl myristate
	Kollicream® 3C	Skin penetration enhancer. Medium spreadable emollient. Extremely mild. Solvent for lipophilic drugs.	■	■	■	■	Ph. Eur.: Cocoyl caprylocaprate, Coco-caprylate-caprate
	Kollicream® OA	Skin penetration enhancer. Medium spreadable emollient.	■	■	■	■	Ph. Eur., USP-NF: Oleyl alcohol
	Kollicream® OD	Penetration enhancer, solubilizer.	■	■	■	■	Ph. Eur., USP-NF: Octyldodecanol
	Kollisolv® PG	Skin penetration enhancer & solvent.	■	■	■	■	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
	Kollisolv® PYR	Versatile solvent with broad miscibility.	■	■	■	■	Ph. Eur.: Pyrrolidone

Functionality	Product	Description	Delivery form				Monograph title*/Chemical name
			Emulsions & creams	Ointments	Gels	Foams	
Emulsification	Kolliphor® CS 12	Nonionic emulsifier for O-W emulsions.	■			■	Ph. Eur.: Macrogol cetostearyl ether 12
	Kolliphor® CS 20	Nonionic emulsifier for O-W emulsions.	■			■	Ph. Eur.: Macrogol cetostearyl ether 20, USP-NF: Polyoxyl 20 cetostearyl ether
	Kolliphor® EL	Nonionic emulsifier for O-W emulsions; Solubiliser.	■				Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP-NF: Polyoxyl 35 Castor Oil; JPE: Polyoxyl 35 Castor Oil
	Kolliphor® HS 15	Nonionic emulsifier for O-W emulsions; Solubiliser.	■				Ph. Eur., USP-NF: Polyethylene glycol-15-hydroxystearate
	Kolliphor® PS 20	Nonionic emulsifier for O-W emulsions.	■		■	■	Ph. Eur., USP-NF: Polysorbate 20
	Kolliphor® PS 60	Nonionic emulsifier for O-W emulsions; Foam stabilizer.	■		■	■	Ph. Eur., USP-NF, JPE: Polysorbate 60
	Kolliphor® PS 80	Nonionic emulsifier for O-W emulsions.	■		■	■	Ph. Eur., USP-NF: Polysorbate 80
	Kolliphor® RH 40	Nonionic emulsifier for O-W emulsions; Solubiliser.	■		■	■	Ph. Eur., USP-NF: Polyoxyl 40 hydrogenated castor oil
	Kolliphor® SLS	Widely used, high HLB anionic emulsifier for semi-solids and foams.				■	Ph. Eur.: Sodium Laurilsulfate; USP-NF, JP: Sodium Lauryl Sulfate
	Kolliphor® SLS fine	Finer particles of Kolliphor® SLS for more controlled and efficient solubilization.				■	Ph. Eur.: Sodium Laurilsulfate; USP-NF, JP: Sodium Lauryl Sulfate
	Kolliphor® CS S	Anionic emulsifier.	■			■	Ph. Eur.: Sodium cetostearyl sulfate
	Kolliphor® CS A	Anionic emulsifier and consistency factor combination for creams and lotions. Self emulsifying wax.	■				Ph. Eur.: Cetostearyl alcohol (type A), emulsifying
	Kolliphor® CSL	Kolliphor CSL is a mixture of emulsifier and waxes that is self-emulsifying and consistency building. It can be used as easy-to-use base for dermatological creams.	■				Mixture of Cetyl stearyl alcohol, Sodium lauryl sulfate & Sodium cetyl stearyl sulfate
	Kollisolv® P 124	Liquid amphiphilic co-polymer.	■		■	■	Ph. Eur., USP-NF: Poloxamer 124; JPE: Polyoxyethylene (20) Polyoxylpropylene (20) glycol
	Kolliphor® P 188	Solid amphiphilic co-polymer, drug solubilizer, emulsifier & foaming agent. Very mild.	■		■	■	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxylpropylene (30) glycol
	Kolliphor® P 338	Solid amphiphilic co-polymer, drug solubilizer, emulsifier.	■		■	■	Ph. Eur., USP-NF: Poloxamer 338
	Kolliphor® P 407	Solid amphiphilic co-polymer drug solubilizer, emulsifier.	■		■	■	Ph. Eur., USP-NF, JP, FCC: Poloxamer 407
	Kolliwax® GMS II	Co-emulsifier and low HLB surfactant. Stabilizes surfactant phases & emulsion droplets.	■	■	■	■	Ph. Eur.: Glyceryl monostearate 40-55 (type II), USP-NF: Mono- and di-glycerides

*Monograph references were updated at time of printing, please visit us online for the latest status

Emulsions, ointments & gels

Functionality	Product	Description	Delivery form				Monograph title*/Chemical name
			Emulsions & creams	Ointments	Gels	Foams	
Consistency factors & viscosity enhancement	Kolliwax® MA	Consistency factor with low melting point. Soft sensory effect.	■	■	■		USP-NF: Myristyl alcohol
	Kolliwax® CA	Structure-building consistency factor for semi-solids. Viscosity regulator.	■	■	■		Ph. Eur., USP-NF: Cetyl alcohol
	Kolliwax® SA	Structure-building consistency factor for semi-solids. Viscosity regulator. Higher melting point	■	■	■		Ph. Eur., USP-NF, JP: Stearyl alcohol
	Kolliwax® CSA 50	Structure-building consistency factor for semi-solids. Viscosity regulator.	■	■	■	■	Ph. Eur., USP-NF, JPE: Cetostearyl alcohol
	Kolliwax® CSA 70	Structure-building consistency factor for semi-solids. Viscosity regulator.	■	■	■		Ph. Eur.: Cetostearyl alcohol
	Kolliphor® CSL	Kolliphor® CSL is a mixture of emulsifier and waxes that is self-emulsifying and consistency building. It can be used as easy-to-use base for dermatological creams.	■	■	■		Mixture of Cetyl stearyl alcohol, Sodium lauryl sulfate & Sodium cetyl stearyl sulfate
	Kolliwax® GMS II	Structure-building consistency factor for semi-solids. Can mitigate stickiness or greasiness. 60 – 80 % of fatty acid is stearic acid.	■	■	■		Ph. Eur.: Glyceryl monostearate 40-55 (type II), USP-NF: Mono- and di-glycerides
	Kolliwax® HCO	Consistency factor; high melting point & retention on skin; Applies with little whiteness.	■	■	■		Ph. Eur.: Castor Oil, hydrogenated; USP-NF: Hydrogenated Castor Oil; JP: Hydrogenated Oil
	Kolliwax® S	Structure-building consistency factor with dry feel; forms crystalline barrier on skin.	■	■			Ph. Eur., USP-NF, JP: Stearic acid 50
	Kolliphor® P 188	Forms clear gels at higher concentrations-temperatures.			■		Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
	Kolliphor® P 338	Forms clear gels at higher concentrations-temperatures.			■		Ph. Eur., USP-NF: Poloxamer 338
	Kolliphor® P 407	Forms clear gels at higher concentrations-temperatures.			■		Ph. Eur., USP-NF, JP, FCC: Poloxamer 407
	Kollisolv® PEG 1000 (Pluriol® E 1000)	Forms anhydrous, hydrophilic ointments in combination with low mol. weight PEG.		■			USP-NF: Polyethelyne glycol 1000
	Kollisolv® PEG 1450 (Pluriol® E 1450)	Forms anhydrous, hydrophilic ointments in combination with low mol. weight PEG.		■			USP-NF: Polyethylene glycol 1450
	Kollisolv® PEG 3350 (Pluriol® E 3350)	Forms anhydrous, hydrophilic ointments in combination with low mol. weight PEG.		■			USP-NF: Polyethylene glycol 3350
	Kollisolv® PEG 8000 (Pluriol® E 8000)	Forms anhydrous, hydrophilic ointments in combination with low mol. weight PEG.		■			USP-NF: Polyethylene glycol 8000
	Kollidon® 90 F P	Soluble Povidone; Significantly enhances viscosity of hydrophilic & -phobic systems.		■			Ph. Eur., USP, JP: Povidone

Transdermal patches

Functionality	Product	Description	Monograph title*/Chemical name
Matrices	Kollicoat® MAE 100 P	Matrix polymer.	Ph. Eur.: Methacrylic Acid - Ethyl Acrylate copolymer (1:1), Type B; USP-NF: Partially-Neutralized Methacrylic Acid and Ethyl Acrylate copolymer
	Kollidon® CL-M	For drug solubilization and transdermal drug delivery aid.	Ph. Eur., USP, JP, FCC: Crospovidone
	Kollidon® SR	Matrix polymer.	Ph. Eur., USP-NF, JP-JPE: 80 % Polyvinyl acetate and 19 % povidone, 0.8 % lauryl sulfate & 0.2 % silica (4:1)
Solubilization	Kolliphor® EL	Solubilizer e.g. for microneedles, approved for injectable formulations.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP-NF: Polyoxyl 35 Castor Oil; JPE: Polyoxyl 35 Castor Oil
	Kolliphor® HS 15	Solubilizer e.g. for microneedles, approved for injectable formulations.	Ph. Eur., USP-NF: Polyethylene glycol-15-hydroxystearate
	Kollicream® IPM	Skin penetration enhancer. Solvent for lipophilic drugs.	Ph. Eur., USP-NF: Isopropyl myristate
	Kollicream® OA	Skin penetration enhancer. Solvent for lipophilic drugs.	Ph. Eur., USP-NF: Oleyl alcohol
	Kollicream® OD	Potential solubilizer of lipophilic APIs and a penetration enhancer.	Ph.Eur., USP-NF: Octyldodecanol
	Kollisolv® PG	Solubilizes and aids in skin penetration of lipophilic actives.	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
	Kollisolv® GTA	Versatile water or oil miscible solvent. Polymer film plasticizer.	Ph. Eur., USP: Triacetin
	Kolliphor® P 188	Inert, biocompatible, amphiphilic polymer, approved for injectable applications.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
	Kollidon® 12 PF **P**	Endotoxin tested with compound related validated limits; Particularily suitable for dissolvable microneedles.	Ph. Eur., USP, JP: Povidone
	Kollidon® 17 PF **P**	Endotoxin tested with compound related validated limits; Particularily suitable for dissolvable microneedles.	Ph. Eur., USP, JP: Povidone
	Kollidon® CL-M	For drug solubilization and transdermal drug delivery aid.	Ph. Eur., USP, JP, FCC: Crospovidone
	Kollidon® 25 **P**	Drug solubilizers (via complexation).	Ph.Eur., USP, JP: Povidone
	Kollidon® 30 **P** Kollidon® 30 LP **P**	Drug solubilizer with low peroxide option.	Ph.Eur., USP, JP: Povidone
	Kollidon® 90 F **P**	Drug solubilizer and delivery aid in transdermal patches.	Ph.Eur., USP, JP: Povidone
	Soluplus®	Forms solid solutions, increasing solubility & bioavailability. Extrudable into films.	Polyvinyl caprolactam – polyvinyl acetate – polyethylene glycol graft copolymer
	Kollidon® VA 64	Drug solubilizer & matrix former in extruded or solvent cast films.	Ph. Eur., USP, JPE: Copovidone

P Packed in PeroXeal™ packaging. *Monograph references were updated at time of printing, please visit us online for the latest status

Topical polymeric films

Functionality	Product	Description	Monograph title*/Chemical name
Film formers	Kollidon® 90 F **P**	Film former & viscosifying agent in aqueous formulations. Drug solubilizer.	Ph.Eur., USP, JP: Povidone
	Kollidon® VA 64	Sprayable film former; Drug solubilizer & matrix former in HME or solvent cast films.	Ph. Eur., USP, JPE: Copovidone
	Kollidon® SR	Sprayable polymeric film former. Flexible. Wash resistant.	Ph. Eur., USP-NF, JP-JPE: 80 % Polyvinyl acetate and 19 % povidone, 0.8 % lauryl sulfate & 0.2 % silica (4:1)
	Kollidon® 30	Polymeric film former. Flexible. Wash resistant.	Ph.Eur., USP, JP: Povidone
	Kollicoat® IR	Polymeric film former. Flexible. Wash resistant.	Ph. Eur.: Macrogol Poly(vinyl alcohol) Grafted Copolymer; USP-NF: Ethylene Glycol and Vinyl Alcohol Graft Copolymer; JPE **
	Kollicoat® SR 30 D	Sprayable polymeric film former. Flexible. Wash resistant.	Ph. Eur., USP-NF: Polyvinyl acetate dispersion
	Soluplus®	Forms solid solutions, increasing solubility & bioavailability. Extrudable into films.	Polyvinyl caprolactam – polyvinyl acetate – polyethylene glycol graft copolymer
Plasticization	Kollisolv® PEG 400	Film plasticizer.	Ph. Eur: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® PG	Film plasticizer & co-surfactant.	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
	Kolliphor® P 188	Versitile plasticizer & solubilizer for polymeric films.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
	Kollisolv® GTA	Polymeric film plasticizer; Versatile water or oil miscible solvent.	Ph. Eur., USP: Triacetin

Suppositories

Functionality	Product	Description	Monograph title*/Chemical name
Structurants/ Matrix Builders	Kolliwax® CA	Structure-building consistency factor.	Ph. Eur., USP-NF: Cetyl alcohol
	Kolliwax® CSA 50	Structure-building consistency factor.	Ph. Eur., USP-NF, JPE: Cetostearyl alcohol
	Kolliwax® CSA 70	Structure-building consistency factor.	Ph. Eur.: Cetostearyl alcohol
	Kolliwax® SA	Structure-building consistency factor.	Ph. Eur., USP-NF, JP: Stearyl alcohol
	Kollisolv® PEG 1000	Builds consistency in suppositories when mixed with low MW liquid PEGs.	USP-NF: Polyethylene glycol 1000
	Kollisolv® PEG 1450	Builds consistency in suppositories when mixed with low MW liquid PEGs.	USP-NF: Polyethylene glycol 1450
	Kollisolv® PEG 3350	Builds consistency in suppositories when mixed with low MW liquid PEGs.	USP-NF: Polyethylene glycol 3350
	Kollisolv® PEG 8000	Builds consistency in suppositories when mixed with low MW liquid PEGs.	USP-NF: Polyethylene glycol 8000
	Kollidon® CL P	Matrix former.	Crospovidone USP-NF, Ph. Eur., JP
	Novata® B	Hard fat for suppository matrix, melting point 33.5 – 35.5 deg C.	Pharm. Eur: Hard fat
	Novata® BC	Hard fat for suppository matrix, melting point 33 – 34.5 deg C.	Pharm. Eur: Hard fat
	Novata® BCF	Hard fat for suppository matrix, melting point 35 – 37 deg C.	Pharm. Eur: Hard fat
	Novata® BD	Hard fat for suppository matrix, melting point 34 – 36 deg C.	Pharm. Eur: Hard fat
Solvents/ Solubilizers	Kollisolv® MCT 70	Solubilizer for lipophilic drugs. Penetration enhancer. Lubricant.	Ph. Eur.: Triglycerides, medium-chain, USP-NF: Medium chain triglycerides
	Kollisolv® PG	Solubilizes and aids in skin penetration of lipophilic actives.	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
	Kollicream® IPM	Solubilizer for lipophilic actives.	Ph. Eur., USP-NF: Isopropyl myristate
	Kollicream® OD	Potential solubilizer of lipophilic APIs and a penetration enhancer.	Ph. Eur., USP-NF: Octyldodecanol
Emulsifier	Kolliphor® PS 20	Non-ionic, hydrophilic emulsifier.	Ph. Eur., USP-NF: Polysorbate 20
	Kolliphor® PS 60	Non-ionic, hydrophilic emulsifier.	Ph. Eur., USP-NF, JPE: Polysorbate 60
	Kolliphor® PS 80	Non-ionic, hydrophilic emulsifier.	Ph. Eur., USP-NF: Polysorbate 80

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Getting your capsules into shape

Softgels

The BASF softgel portfolio offers leading-edge functional excipients to help you achieve the best possible results for each element of your capsules – whether coating, shell, or fill. We focus on compatibility, purity and effectiveness of your softgel formulation and enable effective functional drug delivery.

Combined with our leading expertise in solubilization, we are able to resolve difficult solubility challenges. Moreover, all ingredients have been tested to the highest quality standards to minimize the possibility of gelatin crosslinking.

Capsule fill (solution, Liquid Based Drug Delivery Systems, etc.)

Functionality	Product	Description	Monograph title*/Chemical name
Solvents and fills	Kollisolv® MCT 70	Oil fill for solubilization of lipophilic APIs.	Ph. Eur.: Triglycerides, medium-chain, USP-NF: Medium chain triglycerides
	Kollisolv® PEG 300	Hydrophilic fill for solubilization of hydrophilic APIs.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
	Kollisolv® PEG 400	Hydrophilic fill for solubilization of hydrophilic APIs.	Ph.Eur: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® PEG 600	Hydrophilic fill for solubilization of hydrophilic APIs.	Ph.Eur: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 600; FCC: Polyethylene Glycols
	Kollisolv® PEG 400 LA	Hydrophilic fill for solubilization of hydrophilic APIs. Low aldehyde content to prevent gelatin crosslinking.	USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® PEG 600 LA	Hydrophilic fill for solubilization of hydrophilic APIs. Low aldehyde content to prevent gelatin crosslinking.	USP: Polyethylene Glycol; JP: Macrogol 600; FCC: Polyethylene Glycols
	Kollisolv® PG	Versatile hydrophilic solvent.	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
	Kollisolv® P 124	Liquid amphiphilic polymer for solubilizing APIs.	Ph. Eur., USP-NF: Poloxamer 124; JPE: Polyoxyethylene (20) Polyoxypropylene (20) glycol
Solubility enhancement & emulsification	Kolliphor® CS 12	Nonionic emulsifiers & solubilizers.	Ph. Eur.: Macrogol cetostearyl ether 12
	Kolliphor® CS 20	Nonionic emulsifiers & solubilizers.	Ph. Eur.: Macrogol cetostearyl ether 20, USP-NF: Polyoxyl 20 cetostearyl ether
	Kolliphor® EL	Nonionic O-W emulsifier and solubilizer.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP-NF: Polyoxyl 35 Castor Oil; JPE: Polyoxyl 35 Castor Oil
	Kolliphor® ELP	Purified Kolliphor EL, especially for sensitive active pharmaceutical ingredients.	Ph. Eur.: Macrogolglycerol Ricinoleate 35; USP-NF: Polyoxyl 35 Castor Oil
	Kolliphor® RH 40	Nonionic O-W emulsifier and solubilizer.	Ph. Eur., USP-NF: Polyoxyl 40 hydrogenated castor oil
	Kolliphor® HS 15	Nonionic O-W emulsifier and solubilizer.	Ph. Eur., USP-NF: Polyethylene glycol-15-hydroxystearate
	Kolliphor® PS 20	Nonionic O-W emulsifier and solubilizer.	Ph. Eur., USP-NF: Polysorbate 20
	Kolliphor® PS 60	Nonionic O-W emulsifier and solubilizer.	Ph. Eur., USP-NF, JPE: Polysorbate 60
	Kolliphor® PS 80	Nonionic O-W emulsifier and solubilizer.	Ph. Eur., USP-NF: Polysorbate 80
	Kollisolv® P 124	Liquid amphiphilic polymer, solubilizer.	Ph. Eur., USP-NF: Poloxamer 124; JPE: Polyoxyethylene (20) Polyoxypropylene (20) glycol
	Kolliphor® P 188	Solid amphiphilic polymer, solubilizer.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol
	Kolliphor® P 338	Solid amphiphilic polymer, solubilizer.	Ph. Eur., USP-NF: Poloxamer 338
	Kolliphor® P 407	Solid amphiphilic polymer, solubilizer.	Ph. Eur., USP-NF, JP, FCC: Poloxamer 407
	Kolliwax® GMS II	Co-emulsifier and viscosity enhancer.	Ph. Eur.: Glyceryl monostearate 40-55 (type II), USP-NF: Mono- and di-glycerides
	Kolliwax® CSA 50	Co-emulsifier and viscosity enhancer.	Ph. Eur., USP-NF, JPE: Cetostearyl alcohol
	Kolliwax® HCO	Lipid matrix.	Ph. Eur.: Castor Oil Hydrogenated; USP-NF: Hydrogenated Castor Oil; JP: Hydrogenated Oil
	Kolliwax® S	Emulsifying & solubilizing agent, viscosity enhancer.	Ph. Eur., USP-NF, JP: Stearic acid 50
	Novata® B, BC, BCF, BD	Lipidic matrix and viscosity enhancer.	Ph. Eur.: Hard fat

Functionality	Product	Description	Monograph title*/Chemical name
Crystallization inhibition	Kollidon® 12 PF **P**	Low-molecular weight povidone. Solubilizing agent & crystallization inhibitor.	Ph. Eur., USP: Povidone
	Kollidon® 17 PF **P**	Low-molecular weight povidone. Solubilizing agent & crystallization inhibitor.	Ph. Eur., USP: Povidone; JPE: Povidone K 17
	Kollidon® 30	Low-molecular weight povidone. Solubilizing agent & crystallization inhibitor.	Ph. Eur., USP, JP: Povidone
	Kollidon® 90 F **P**	Soluble Povidone, viscosity enhancer.	Ph. Eur., USP-NF, JP, FCC: Polyvinylpyrrolidone, Povidone

Coating formulation

Functionality	Product	Description	Monograph title*/Chemical name
Coatings	Kollicoat® IR	Due to its flexibility and stability Kollicoat® IR is suitable polymer for gelatin-free capsule shells or as a pore former for sustained release coatings.	Ph. Eur.: Macrogol Poly(vinyl alcohol) Grafted Copolymer; USP-NF: Ethylene Glycol and Vinyl Alcohol Graft Copolymer; JPE: Methacrylic Acid Copolymer LD
	Kollicoat® MAE 30 DP	Effective & reliable enteric coating for soft capsules. Aqueous dispersion.	Ph. Eur.: Methacrylic Acid – Ethyl Acrylate copolymer (1:1) dispersion 30 per cent; USP: Methacrylic Acid Copolymer Dispersion; JPE: Methacrylic Acid Copolymer LD
	Kollicoat® MAE 100 P	Effective & reliable enteric coating for soft capsules. Powder grade.	Ph. Eur.: Methacrylic Acid - Ethyl Acrylate copolymer (1:1), Type B; USP-NF: Partially-Neutralized Methacrylic Acid and Ethyl Acrylate copolymer
	Kollicoat® MAE 100-55	Effective & Reliable enteric coating for softgel capsules. Dust free, non-neutralized powder grade.	Ph.Eur.: Methacrylic Acid – Ethyl Acrylate Copolymer (1:1) Type A; USP-NF: Methacrylic Acid and Ethyl Acrylate Copolymer; JPE: Dried Methacrylic Copolymer LD
	Kollicoat® Smartseal 30 D	Highly flexible clear coat co-polymer which provides moisture protection.	pH dependent clear coat co-polymer which provides a significant moisture barrier
	Kollicoat® SR 30 D	Highly flexible & pH-independent sustained release film coating polymer.	Ph. Eur., USP-NF: Polyvinyl acetate dispersion
	Kollicoat® Protect	Highly flexible instant release film coating polymer. Especially suitable for moisture protection.	Excipient based on Kollicoat® IR and monographed raw materials
	Kolliwax® GMS II	Co-emulsifier, viscosity enhancer & anti-tracking agent.	Ph. Eur.: Glyceryl monostearate 40-55 (type II), USP-NF: Mono- and di-glycerides.
Additives	Kollisolv® PEG 300	Liquid plasticizer.	Ph. Eur.: Macrogols; USP: Polyethylene Glycol, JPE: Macrogol 300; FCC: Polyethylene Glycols
	Kollisolv® PEG 400	Liquid plasticizer.	Ph.Eur: Macrogols; USP: Polyethylene Glycol; JP: Macrogol 400; FCC: Polyethylene Glycols
	Kollisolv® GTA	Liquid plasticizer.	Ph. Eur., USP: Triacetin
	Kollisolv® PG	Liquid plasticizer.	Ph. Eur., USP-NF, JP, FCC: Propylene glycol
	Kolliwax® GMS II	Anti-tacking agent.	Ph. Eur.: Glyceryl monostearate 40-55 (type II), USP-NF: Mono- and di-glycerides
	Kollisolv® MCT 70	Liquid, oily lubricant.	Ph. Eur.: Triglycerides, medium-chain, USP-NF: Medium chain triglycerides
	Kolliwax® HCO	Solid lubricant.	Ph. Eur.: Castor Oil, hydrogenated; USP-NF: Hydrogenated Castor Oil; JP: Hydrogenated Oil
	Kolliwax® S fine	Solid lubricant.	Ph. Eur., USP-NF, JP: Stearic acid 50

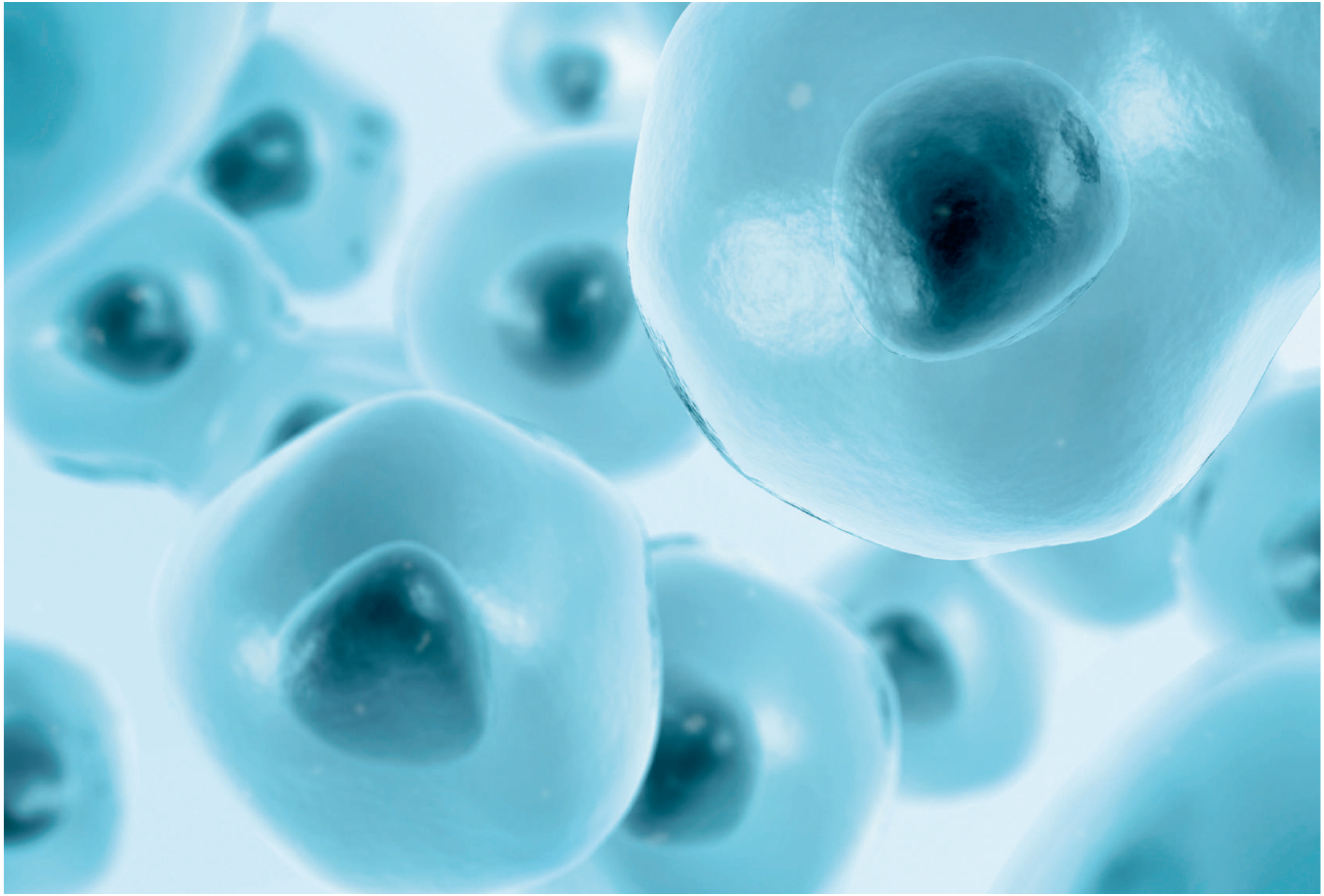
P Packed in PeroXeal™ packaging. *Monograph references were updated at time of printing, please visit us online for the latest status

Manage your risks

Biologic Solutions

With over 50 years of experience in EO/PO chemistry, BASF Pharma Solutions, the leading supplier of poloxamer P188. is pleased to introduce poloxamer Kolliphor® P 188 Bio – specifically designed to meet the stringent requirements of biologics manufacturers for purity, consistency and performance in mammalian cell culture systems.

In these cell culture systems, live cells are kept in suspension within the medium in bioreactors and are subject to some degree of physical (shear) stress in the process.



High purity poloxamer designed for biologics manufacturing

BASF is the leading manufacturer of poloxamer P 188 (Kolliphor® P 188). In bioprocessing, poloxamer 188 has been extensively researched and has been found to be the most effective mammalian cell culture ingredient to provide shear protection during manufacturing of biologic drugs.

BASF is committed to provide Kolliphor® P 188 Bio, which is designed to meet your needs in quality, consistency, and performance in cell culture systems.

Kolliphor® P 188 Bio is a premium, fit-for-purpose product designed to minimize risk in cell culture manufacturing. It is used as an additive to the cell culture medium to reduce the shear stress, which improves cell viability and the resulting biologic drug yield. For use in cell culture, the purity of the product is critical, and requires special attention to assure every lot produced is suitable for use with cell cultures. Moreover, Kolliphor® P 188 Bio will allow customers to reduce the supply chain complexity and minimizes the need for additional testing.

Kolliphor® P 188 Bio

- Consistent performance lowers manufacturing risk
- Additional cell culture & analytical testing
- Enhanced packaging
- Compendial grade with Drug Master File

Product	Description	Monograph title*/Chemical name
Kolliphor® P 188 Bio	For use as a shear protectant in cell culture manufacturing processes.	Ph. Eur., USP-NF: Poloxamer 188; JPE: Polyoxyethylene (160) Polyoxypropylene (30) glycol

Superior quality APIs make the difference

APIs

For over 75 years, BASF has been driving excellence in active pharmaceutical ingredients (APIs). Backed by this wealth of experience, we offer a proven portfolio of products that delivers consistent safety and reliability.

What's more, we have achieved worldwide leadership in generic actives such as ibuprofen and omega-3. With a strong international presence, BASF is a truly global partner that can also offer reliable local support. And thanks to our state-of-the-art production facilities located around the world, we can deliver the products you need – wherever and whenever you need them.

APIs

Product	CAS no.	Registration				Regulatory status	Description	
		CEP	ASMF	JDMF	US-DMF			
Ibuprofen								
Ibuprofen 25	15687-27-1	■	■	■	■	USP, Ph. Eur., JP, IP	Particle size: D (0.5) = 20-33 µm.	Chiral propionic acid derivative, classified as a nonsteroidal anti-inflammatory drug (NSAID). Is used as an analgesic and antiinflammatory agent.
Ibuprofen 38	15687-27-1	■	■	■	■	USP, Ph. Eur., JP, IP	Particle size: D (0.5) = 33-45 µm.	
Ibuprofen 50	15687-27-1	■	■	■	■	USP, Ph. Eur., JP, IP	Particle size: D (0.5) = 45-60 µm.	
Ibuprofen 70	15687-27-1	■	■	■	■	USP, Ph. Eur., JP, IP	Particle size: D (0.5) = 60-85 µm.	
Ibuprofen DC 85 W	15687-27-1		■		■		Direct compressible Ibuprofen with 85 % drug content.	
Ibuprofen Sodium	31121-93-4		■		■		Fast-acting Ibuprofen.	
Racemic Ibuprofen Lysinate	57469-86-8		■				Fast-acting Ibuprofen.	
Omega-3								
Maxomega™ EPA 97 EE	86227-47-6			■		JP	Eicosapentaenoic acid ethyl ester therapy for patients with very high triglyceride levels.	
Omega-3-Acid Ethyl Esters (K85EE)	EPA EE 86227-47-6 DHA EE 81926-94-5	■			■	USP, Ph.Eur.	As an adjunct to diet to reduce triglyceride (TG) levels in adult patients with severe (≥ 500 mg/dL) hypertriglyceridemia (HTG). Additionally, in Europe and ROW approved for post-MI – after myocardial infarction.	
Omega-3-Acid Ethyl Esters 1g Capsules (USP)	EPA EE 86227-47-6 DHA EE 81926-94-5				■	USP	Omega-3-acid ethyl esters are indicated as an adjunct to diet to reduce triglyceride (TG) levels in adult patients with severe (≥ 500 mg/dL) hypertriglyceridemia (HTG).	
other omega-3 products might be available on special request only								
Other								
Polyethylene Glycol 3350 (PEG 3350)	25322-68-3	■	■	■	■	USP, PH. Eur.	Oral laxative which acts by osmotic retention of water in the intestine. PEG 3350 is applicable for long-term therapy because it has no effect on the cardiovascular system, causes no irritation of the intestinal mucosa.	
PVP Iodine 30/06	25655-41-8	■	■	■	■	USP, Ph. Eur., JP, IP	Surgical and hygienic disinfection. Treatment of burns, decubitus, varicose ulcers, dermatomycosis, pyoderma, acne and vaginitis. PVP iodine is used in topical formulations such as solutions, gels, creams, ovula and others.	
Azelaic Acid 99 % (Dermaz® 99)	123-99-9				■		Treating acne vulgaris, inflammatory rosacea, and hyperpigmentary disorder.	
Dexpanthenol Ph. Eur.	81-13-0	■	■			USP, Ph. Eur.	Dermaticum, treatment of wounds, promotion of epithelization.	
L-Menthol	2216-51-5	■	■		■	USP, Ph. Eur., JP	Antitussive, nasal decongestant, antihistamine, expectorant, throat irritation relief, topical analgesic, local anesthetic.	

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We create chemistry