

Simplifying semi-solid formulation.

High-quality pharma raw materials and global regulatory support.



Benefit from our wide range of high-quality pharma raw materials and global support

Our excipients for semi-solid dose such as ointments, creams, gels, and suppositories, support easy local application and rapid formulation. Their ability to topically deliver a wide variety of drug molecules makes them ideal carriers and helps you make the most out of your semi-solid formulations.

We offer a comprehensive range of products available everywhere around the world. Our high-quality raw materials and APIs not only benefit from EMPROVE® qualification, but also from the regulatory know-how and global support provided by our dedicated team. We help you to bring your product to market faster and still reduce costs.

Benefits:

- High-quality pharma raw materials
- EMPROVE® documentation
- Dedicated regulatory support

Speed up approval preparation with EMPROVE® documentation

All our semi-solid dose excipients are backed up by our EMPROVE® qualification, providing you with unparalleled regulatory support and ready-to-use documentation. Designed to make your job easier by delivering a thorough and seamless material qualification trail, EMPROVE® dossiers let you simplify your processes, so you can accelerate approval procedures and get your products to market faster.

Visit www.merckmillipore.com/emprove for more information.



Urea in API quality

Qualification and registration of an atypical API is a time-consuming process with risk of delays. That's why we have developed urea in API grade – and we are proud to be the first and only company to offer this product with a Certificate of European Pharmacopeia (CEP). Urea is widely used in topical dermatological applications. Depending on the concentration in the final product urea causes a rehydration effect (<10%) as well as a keratolytic effect (>10%). Because it is incorporated in the aqueous phase of the creams, microbiological safety is important. Therefore all batches are tested for the microbiological burden and offered in clean-room packaging (double PE bags).

- The only API grade urea on the market with a CEP
- Meets regulatory requirements, compliant to Ph Eur, BP, USP
- Microbiological and melamine testing

Visit www.merckmillipore.com/urea for more information.



Polyvinyl alcohol for hydrogel formulation

No matter what your application is, our broad portfolio of polyvinyl alcohol (PVA) types makes it easy to find the right product for your formulation. Transdermal applications, for example, have become increasingly useful. Hydrogel patches are an excellent alternative in systemic therapy to achieve consistent plasma levels of the API, enhance bioavailability, and improve patient compliance. One material well suited for use in transdermal hydrogel applications is PVA. While other polymers are known to have incompatibilities with multiple APIs or other formulation ingredients, PVA shows high inertness and may be broadly applied. Our PVA grades can also be used in ophthalmics, coatings, or cosmetics applications.

- Broadest range of PVA types to meet every application need
- Batch-to-batch consistency
- Extensively tested and documented product quality, surpassing compendial requirements
- EMPROVE® documentation

Visit www.merckmillipore.com/pva for more information.



pH Adjustments

100056	Acetic acid (glacial) 100%, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 260
100058	Acetic acid 96%, suitable for use as excipient EMPROVE® exp
100090	Adipic acid, suitable for use as excipient EMPROVE® exp Ph Eur, NF, FCC, E 355
105422	Ammonia solution 25%, suitable for use as excipient EMPROVE® exp Ph Eur, BP
100160	Boric acid cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
100162	Boric acid powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
102052	Calcium acetate hydrate extra pure DAC, FCC
102110	Calcium hydroxide, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, JP, FCC
102102	Calcium lactate pentahydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 327
100247	Citric acid anhydrous fine-granular, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 330, FCC
100241	Citric acid anhydrous powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 330, FCC
100242	Citric acid monohydrate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 330, FCC
100243	Citric acid monohydrate powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 330, FCC
100312	Hydrochloric acid 25%, suitable for use as excipient EMPROVE® exp Ph Helv
100314	Hydrochloric acid fuming 37%, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF
100366	(S)-Lactic acid about 90%, suitable for use as excipient EMPROVE® exp Ph Eur, BP, E 270
817058	Maleic acid Ph Eur, NF
100563	ortho-Phosphoric acid 85%, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JPE, NF, E 338
104956	tri-Potassium citrate monohydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 332
105032	Potassium hydroxide pellets, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF, FCC, E 525
106281	Sodium acetate anhydrous extra pure USP, FCC, E 262
106265	Sodium acetate trihydrate extra pure Ph Eur, BP, JP, USP, FCC, E 262
106431	tri-Sodium citrate 5,5-hydrate, suitable for use as excipient EMPROVE® exp FU VIII, E 331
111037	tri-Sodium citrate anhydrous, suitable for use as excipient EMPROVE® exp USP, FCC, E 331

Ord. No. Product

106432	tri-Sodium citrate dihydrate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 331
106446	tri-Sodium citrate dihydrate powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 331
106447	tri-Sodium citrate dihydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 331
106345	Sodium dihydrogen phosphate dihydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, JPE, E 339
106349	Sodium dihydrogen phosphate monohydrate, suitable for use as excipient EMPROVE® exp BP, USP
106585	di-Sodium hydrogen phosphate anhydrous, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 339
106576	di-Sodium hydrogen phosphate dihydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
106574	di-Sodium hydrogen phosphate heptahydrate, suitable for use as excipient EMPROVE® exp DAC, USP
106482	Sodium hydroxide pellets, suitable for use as excipient EMPROVE® exp Ph Eur, BP, FCC, JP, NF, E 524
106303	di-Sodium tetraborate decahydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF
106522	Sodium-(S)-lactate-solution about 50%, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
100713	Sulfuric acid 95–98%, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, Ph Franç
108386	Tris(hydroxymethyl)aminomethane (Trometamol), suitable for use as excipient EMPROVE® exp Ph Eur, BP, JPC, USP

Ingredients

101071	Aluminum hydroxide acetate hydrate (basic aluminum acetate) pure
108597	Hydrogen peroxide 30% stabilized, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
108600	Hydrogen peroxide 35%, suitable for use as excipient EMPROVE® exp
105995	(-)-Menthol cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP
817071	Methyl nicotinate Ph Eur
106070	Methyl salicylate synthetic, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
107590	Resorcinol extra pure Ph Eur, BP, USP
101510	Silver nitrate cryst. extra pure Ph Eur, BP, USP
107983	Sulfur for external use Ph Eur, BP

Thickeners/Ointment Base

105006	Bole white powder low bacterial content, for internal use, suitable for use as excipient EMPROVE® exp Ph Eur, BP
104072	Gelatin (sheets), suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
104078	Gelatin (powder), suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
104228	Gum arabic spray-dried, suitable for use as excipient EMPROVE® exp Ph Eur, BP
817009	Polyethylene glycol 1000, suitable for use as excipient EMPROVE® exp Ph Eur
817008	Polyethylene glycol 10000, suitable for use as excipient EMPROVE® exp
817005	Polyethylene glycol 1500 (scales), suitable for use as excipient EMPROVE® exp Ph Eur
817001	Polyethylene glycol 200, suitable for use as excipient EMPROVE® exp DAB 8
817020	Polyethylene glycol 2000, suitable for use as excipient EMPROVE® exp DAB
817002	Polyethylene glycol 300, suitable for use as excipient EMPROVE® exp Ph Eur
817019	Polyethylene glycol 3000, suitable for use as excipient EMPROVE® exp Ph Eur
817003	Polyethylene glycol 400, suitable for use as excipient EMPROVE® exp Ph Eur, JP
817006	Polyethylene glycol 4000 (powder), suitable for use as excipient EMPROVE® exp Ph Eur
817063	Polyethylene glycol 4000 (scales), suitable for use as excipient EMPROVE® exp Ph Eur
817004	Polyethylene glycol 600, suitable for use as excipient EMPROVE® exp Ph Eur
817007	Polyethylene glycol 6000, suitable for use as excipient EMPROVE® exp Ph Eur
141365	Polyvinyl alcohol 18–88 powder EMPROVE® exp Ph Eur, USP
141355	Polyvinyl alcohol 18–88, suitable for use as excipient EMPROVE® exp Ph Eur, USP, JPE
141362	Polyvinyl alcohol 26–88 powder EMPROVE® exp Ph Eur, USP
141352	Polyvinyl alcohol 26–88, suitable for use as excipient EMPROVE® exp Ph Eur, USP, JPE
141356	Polyvinyl alcohol 28–99, suitable for use as excipient EMPROVE® exp JPE
141363	Polyvinyl alcohol 40–88 powder EMPROVE® exp Ph Eur, USP
141353	Polyvinyl alcohol 40–88, suitable for use as excipient EMPROVE® exp Ph Eur, USP, JPE
141360	Polyvinyl alcohol 4–88 powder, suitable for use as excipient EMPROVE® exp Ph Eur, USP

<i>Ord. No.</i>	<i>Product</i>
141350	Polyvinyl alcohol 4–88, suitable for use as excipient EMPROVE® exp Ph Eur, USP, JPE
141364	Polyvinyl alcohol 5–88 powder EMPROVE® exp Ph Eur, USP
141354	Polyvinyl alcohol 5–88, suitable for use as excipient EMPROVE® exp Ph Eur, USP, JPE
141361	Polyvinyl alcohol 8–88 powder EMPROVE® exp Ph Eur, USP
141351	Polyvinyl alcohol 8–88, suitable for use as excipient EMPROVE® exp Ph Eur, USP, JPE
113126	Silicon dioxide colloidal, highly dispersed, suitable for use as excipient EMPROVE® exp Ph Eur, NF, JP, E 551
111544	Wax white in pastilles, suitable for use as excipient EMPROVE® exp Ph Eur, BP

Preservatives

817046	Benzalkonium chloride (50% aqueous solution), suitable for use as excipient EMPROVE® exp Ph Eur, NF
817032	Benzalkonium chloride, suitable for use as excipient EMPROVE® exp Ph Eur
100130	Benzoic acid powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 210
100160	Boric acid cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
100162	Boric acid powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
100887	Ethyl 4-hydroxybenzoate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF, E 214
106757	Methyl 4-hydroxybenzoate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF, FCC, E 218
105119	Potassium sorbate granules, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, FCC, E 202
105118	Potassium sorbate powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, FCC, E 202
107427	Propyl 4-hydroxybenzoate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF, FCC
106290	Sodium benzoate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, FCC, E 211
100662	Sorbic acid, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, FCC, E 200
108421	Titriplex® III (ethylenedinitrilotetraacetic acid disodium salt dihydrate), suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP
101005	1,1,1,-Trichloro-2-methyl-2-propanol hemihydrate Ph Eur, BP, JP, NF

Antioxidants

500949	All-rac- α -Tocopherol, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 307
500090	L(+)-Ascorbyl palmitate (6-palmitoyl-L-ascorbic acid), suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, FCC, E 304
817023	Butylhydroxyanisole Ph Eur, NF, E 320
817074	Butylhydroxytoluene Ph Eur, JPE, NF, E 321
108330	Oxynex® L liquid antioxidant for fats and oils, suitable for use as excipient EMPROVE® exp
106946	Oxynex® LM antioxidant for fats and oils, suitable for use as excipient EMPROVE® exp
105056	Potassium disulfite, suitable for use as excipient EMPROVE® exp Ph Eur, NF, E 224
106357	Sodium disulfite (sodium metabisulfite), suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF, E 223
106652	Sodium sulfite, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, E 221
106513	Sodium thiosulfate pentahydrate pure
106514	Sodium thiosulfate pentahydrate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP

Surfactants

100989	Cetyl alcohol, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, JP
115419	Cetyl palmitate 15 (cetylestere wax), suitable for use as excipient EMPROVE® exp Ph Eur, NF
103672	Cholesterol from wool fat extra pure, powdered Ph Eur, BP, NF, JP
137065	Poloxamer 188, suitable for biopharmaceutical production Ph Eur, NF
817034	Sodium dodecyl sulfate Ph Eur
108372	Triethanolamine (Trolamine), suitable for use as excipient EMPROVE® exp Ph Eur
108369	Triethanolamine solution 50% in water
817072	Tween® 20 (Polysorbate), suitable for use as excipient EMPROVE® exp Ph Eur, JPE, NF
817076	Tween® 60 (Polysorbate), suitable for use as excipient EMPROVE® exp Ph Eur, JPE, NF
817061	Tween® 80 (Polysorbate), suitable for use as excipient EMPROVE® exp Ph Eur, JPE, NF

Solvents

100971	Ethanol 96%, suitable for use as excipient EMPROVE® exp Ph Eur, BP
100967	Ethanol 96%, suitable for use as excipient EMPROVE® exp Ph Eur, JP, USP
101986	Ethanol absolute, suitable for preparative chromatography Ph Eur, BP, USP
100986	Ethanol absolute, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP
100864	Ethyl acetate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
104091	Glycerol 85%, suitable for use as excipient EMPROVE® exp Ph Eur, BP
104093	Glycerol anhydrous, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 422
100471	Oleic acid vegetable, suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
107174	Paraffin highly liquid Ph Eur, BP, NF, JP
100909	Petroleum benzine boiling range 40–60°C, suitable for use as excipient EMPROVE® exp DAB
107478	1,2-Propanediol, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
100995	2-Propanol, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP

Mineral Salts

142000	Calcium chloride dihydrate EMPROVE® Ph Eur, BP, JP, USP, FCC, E 509
102365	Calcium chloride dihydrate, suitable for use as active ingredient EMPROVE® api Ph Eur, BP, JP, USP
106400	Sodium chloride, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
100805	Titanium(IV) oxide, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, JP, E 171
108800	Zinc acetate dihydrate extra pure Ph Eur, USP
108846	Zinc oxide, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP

Samples in small package sizes available upon request.

The typical technical data above serve to generally characterize the product. These values are not meant as specifications and they do not have binding character. The product specification is available separately, from the website: www.merckmillipore.com

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