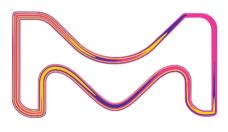


Simplify your semi-solid formulations.

High-quality pharma raw materials backed with global regulatory support.



The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

SAFC®

Pharma & Biopharma Raw Material Solutions

A broad product portfolio and global support.

Finding the right excipient that matches your needs as well as regulatory demands can be a complicated challenge in semi-solid formulation. Our excipients for semi-solid dose support easy local application and rapid formulation as well as regulatory compliance of ointments, creams, gels, and suppositories. The raw materials' ability to topically deliver a wide variety of drug molecules makes them ideal carriers, helping you make the most out of your semi-solid formulations.

We offer a comprehensive range of products globally. By choosing our high-quality raw materials, you will not only benefit from our Emprove® Program, but also from our regulatory know-how and global support, enabling you to bring your product to market faster and still reduce costs.

Benefits:

- High-quality pharma raw materials
- Emprove[®] documentation for risk assessment
- Dedicated regulatory support

Penetration Enhancement Agents: Urea and DMSO.

To increase the bioavailability of your transdermal applications, we offer a range of high-quality products, produced in accordance with GMP guidelines.

Urea

- The only API grade urea on the market with CEP and DMF
- Meets regulatory requirements according to ICHQ7 GMP guidelines; complies with Ph Eur, BP, and USP
- Includes microbiological and melamine testing

DMSO

- Complies with Ph Eur and USP and fulfills IPEC GMP guidelines
- Includes microbiological and endotoxin testing
- Emprove[®] Expert grade to meet your requirements for high-risk applications



Polyvinyl alcohol in topical and transdermal formulations.

Polyvinyl alcohol (PVA) is a synthetic polymer that can be used as a major component of and matrix material for semi-solid formulations. It is applied in topical creams, gels, and also in transdermal patches.

Our portfolio offers a wide range of PVA grades, including different viscosities, molecular weights, and hydrolysis grades, to provide you with high-quality products for your application.

Additional applications of PVA include ophthalmics, solid oral formulations, and cosmetics.

- Broad range of PVA types for multiple application needs
- Multi-compendial material
- Additional specifications surpassing compendial requirements to support patient safety and good tolerability
- Emprove[®] documentation

For more information: MerckMillipore.com/pva



The Emprove® Program

Your fast track through regulatory challenges.

Ensuring the compliance of your pharma and biopharma products involves the compilation of a vast amount of data, which can be time- and resourceintensive. In order to facilitate and accelerate this process, we developed our Emprove® Program. It includes 400 pharma raw and starting materials and a selection of filtration and single-use products. Each product in the portfolio is complemented with three different types of dossiers supporting you throughout the different stages of your operations: qualification, risk assessment, and process optimization – all designed to help you speed your way through the regulatory maze.

Find out more: MerckMillipore.com/emprove

Actidulants and pH Adjusters 100055 Aceta add (glacal)) 100% EMPROVE* ESSENTIAL Ph Eur, BP, JP, USP, E 260 100059 Aceta add (glacal)) 100% EMPROVE* ESSENTIAL 100059 Aceta add SM& EMPROVE* ESSENTIAL 100050 Mipic add EMPROVE* ESSENTIAL Ph Eur, BP, PC (E 335 100150 Boric add cryst., EMPROVE* ESSENTIAL Ph Eur, BP, NF 100150 Boric add cryst., EMPROVE* ASSENTIAL Ph Eur, BP, NF 100152 Calclum acetade hydrate extra pure DAC, FCC 102119 Calclum hydroxide precipitated (20.0005% AI) EMPROVE* ESSENTIAL USP, FCC, E 526 102110 Calclum hydroxide precipitated (20.0005% AI) EMPROVE* ESSENTIAL USP, FCC, E 526 1021212 Calclum hydroxide precipitated (20.0005% AI) EMPROVE* ESSENTIAL Ph Eur, BP, USP, E 327 100247 Citric add anhydrous fine-granular, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 330, FCC 100242 Citric add anhydrous fine-granular, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 330, FCC 100243 Citric add anhydrous fine-granular, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 330, FCC 100243 Citric add anbut 90%, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 330, FCC 100243 Citric add anburd 90%, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 330, FCC			
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100155 Boric acid cryst, EMPROVE* ESSENTIAL Ph Eur, BP, JP, NF 100164 Boric acid cryst, EMPROVE* API Ph Eur, BP, VF 102052 Calcium acetate hydrate extra pure DAC, FCC 102119 Calcium hydroxide precipitated (s0.0005% AI) EMPROVE* ESSENTIAL USP, FCC, E 526 1021202 Calcium hydroxide EMPROVE* ESSENTIAL Ph Eur, BP, USP, JP, FCC, E 526 102102 Calcium hydroxide EMPROVE* ESSENTIAL 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 monohydrate cryst., 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 100343 Citric acid monohydrate powder, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 330, FCC 100343 Citric acid forming 37% EMPROVE* ESSENTIAL Ph Heiv 100344 Hydrochloric acid 25% EMPROVE* ESSENTIAL Ph Heir 100356 (S)-Lactic acid about 90%, suitable for use as excipient EMPROVE* exp Ph Eur, BP, JP, USP, E 332 100356 (S)-Lactic acid about 90%, suitable for use as excipient EMPROVE* exp Ph Eur, BP, IP, EUR, BP, SP, EIR, BP, SP, EIR,	105422	Ammonia solution 25% EMPROVE® ESSENTIAL Ph Eur, BP	
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106574 di-Sodium hydrogen phosphate heptahydrate EMPROVE® ESSENTIAL DAC, USP	106585	di-Sodium hydrogen phosphate anhydrous EMPROVE [®] ESSENTIAL Ph Eur, BP, USP, E 339	
	106576	di-Sodium hydrogen phosphate dihydrate EMPROVE® ESSENTIAL Ph Eur, BP, USP	
106482 Sodium hydroxide pellets EMPROVE [®] ESSENTIAL Ph Eur, BP, FCC, JP, NF, E 524	106574	di-Sodium hydrogen phosphate heptahydrate EMPROVE® ESSENTIAL DAC, USP	
	106482	Sodium hydroxide pellets EMPROVE® ESSENTIAL Ph Eur, BP, FCC, JP, NF, E 524	

Cat. No. Article

Cat. No.	Article
Acidula	nts and pH Adjusters
106303	di-Sodium tetraborate decahydrate EMPROVE® ESSENTIAL Ph Eur, BP, JP, NF
106522	Sodium-(S)-lactate-solution about 50%, suitable for use as exipient EMPROVE® exp Ph Eur, BP, USP
100713	Sulfuric acid 95-98% EMPROVE® ESSENTIAL Ph Eur, BP, JPE, NF
108386	Tris(hydroxymethyl)aminomethane (Trometamol), suitable for use as excipient EMPROVE® exp Ph Eur, BP, JPC, USP
108372	Triethanolamine (Trolamine) EMPROVE® ESSENTIAL Ph Eur
Ingredi	ents
101071	Aluminium hydroxide acetate hydrate (basic aluminium acetate) pure
108597	Hydrogen peroxide 30% stabilized, EMPROVE® ESSENTIAL Ph Eur, BP, USP
105995	(-)-Menthol EMPROVE® ESSENTIAL Ph Eur, BP, JP, USP
106070	Methyl salicylate synthetic, EMPROVE [®] ESSENTIAL 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
Thicken	ers/Ointment Bases
105006	Bole white powder low bacterial content, for internal use, EMPROVE® ESSENTIAL Ph Eur, BP
104072	Gelatin (sheets) EMPROVE® ESSENTIAL Ph Eur, BP, NF
104078	Gelatin powder, EMPROVE® ESSENTIAL Ph Eur, BP, NF
104228	Gum arabic spray-dried, EMPROVE® ESSENTIAL Ph Eur, BP
817009	Polyethylene glycol 1000 EMPROVE® ESSENTIAL Ph Eur
817005	Polyethylene glycol 1500 (scales) EMPROVE® ESSENTIAL Ph Eur
817001	Polyethylene glycol 200 EMPROVE® ESSENTIAL DAB 8
817020	Polyethylene glycol 2000 suitable for use as excipient EMPROVE [®] exp DAB
817018	Polyethylene glycol 20000 EMPROVE® ESSENTIAL Ph Eur
817002	Polyethylene glycol 300 EMPROVE® ESSENTIAL Ph Eur
817019	Polyethylene glycol 3000 EMPROVE® ESSENTIAL Ph Eur
817003	Polyethylene glycol 400 EMPROVE® ESSENTIAL Ph Eur, JP
817006	Polyethylene glycol 4000 (powder) EMPROVE® ESSENTIAL Ph Eur
817063	Polyethylene glycol 4000 (scales) EMPROVE® ESSENTIAL Ph Eur
817004	Polyethylene glycol 600 EMPROVE® ESSENTIAL Ph Eur
817007	Polyethylene glycol 6000 EMPROVE® ESSENTIAL 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
1/1256	Polyvinyl alcohol 28-00, suitable for use as excinient EMPPOV/E® exp. 10E

141356 Polyvinyl alcohol 28-99, suitable for use as excipient EMPROVE[®] exp JPE

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Cal. NO.	
Thicken	ers/Ointment Bases
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 $EMPROVE^{\otimes}$ exp Ph Eur, USP
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 EMPROVE® ESSENTIAL Ph Eur, NF, JP, E 551
111544	Wax white in pastilles EMPROVE® ESSENTIAL Ph Eur, BP
Preserv	atives
817046	Benzalkonium chloride (50% aqueous solution) EMPROVE® ESSENTIAL Ph Eur, NF
817032	Benzalkonium chloride EMPROVE [®] ESSENTIAL Ph Eur, NF
100130	Benzoic acid powder, EMPROVE® ESSENTIAL Ph Eur, BP, USP, E 210
100987	Benzyl alcohol EMPROVE [®] exp Ph Eur, BP, JP, NF
100887	Ethyl 4-hydroxybenzoate EMPROVE® ESSENTIAL Ph Eur, BP, JP, NF
106757	Methyl 4-hydroxybenzoate EMPROVE® ESSENTIAL Ph Eur, BP, JP, NF, FCC
105119	Potassium sorbate granules, EMPROVE [®] ESSENTIAL Ph Eur, BP, NF, FCC, E 202
105118	Potassium sorbate powder, EMPROVE [®] ESSENTIAL Ph Eur, BP, NF, FCC, E 202
107427	Propyl 4-hydroxybenzoate EMPROVE® ESSENTIAL Ph Eur, BP, JP, NF, FCC
106290	Sodium benzoate EMPROVE® ESSENTIAL Ph Eur, BP, NF, FCC, E 211
100662	Sorbic acid EMPROVE® ESSENTIAL Ph Eur, BP, NF, FCC, E 200
101005	1, 1, 1-Trichloro-2-methyl-2-propanol hemihydrate Ph Eur, BP, JP, NF
Antioxic	lants
500949	all-rac-a-Tocopherol EMPROVE [®] ESSENTIAL Ph Eur, BP, USP, E 307
500090	L(+)Ascorbyl palmitate EMPROVE [®] ESSENTIAL 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 EMPROVE® ESSENTIAL
106946	Oxynex [®] LM antioxidant for fats and oils EMPROVE [®] ESSENTIAL
105056	Potassium disulfite EMPROVE [®] ESSENTIAL Ph Eur, NF, E 224
106357	Sodium disulfite (sodium metabisulfite) EMPROVE [®] ESSENTIAL Ph Eur, BP, JP, NF, E 223
106652	Sodium sulfite EMPROVE® ESSENTIAL Ph Eur, BP, NF, E 221
106513	Sodium thiosulfate pentahydrate pure
106514	Sodium thiosulfate pentahydrate cryst., EMPROVE® ESSENTIAL Ph Eur, BP, USP

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Antioxid	ants
108421	TITRIPLEX® III (ethylenedinitrilotetraacetic acid disodium salt dihydrate) EMPROVE® ESSENTIAL Ph Eur, BP, JP, USP
Surfacta	ints
100989	Cetyl alcohol EMPROVE® ESSENTIAL Ph Eur, BP, NF, JP
115419	Cetyl palmitate 15 (cetylesters wax) EMPROVE [®] ESSENTIAL Ph Eur, NF
103672	Cholesterol from wool fat extra pure, powdered Ph Eur, BP, NF, JP
137112	Poloxamer 188 EMPROVE® EXPERT Ph Eur, NF (stabilized with 70 ppm BHT)
817034	Sodium dodecyl sulfate Ph Eur
817072	Tween [®] 20 (Polysorbate) EMPROVE [®] ESSENTIAL Ph Eur, JPE, NF
817076	Tween [®] 60 (Polysorbate) EMPROVE [®] ESSENTIAL Ph Eur, JPE, NF
817061	Tween [®] 80 (Polysorbate) EMPROVE [®] ESSENTIAL Ph Eur, JP, NF
Solvents	5
100971	Ethanol 96%, suitable for use as excipient EMPROVE $^{\circ}$ exp Ph Eur, BP
100967	Ethanol 96%, suitable for use as excipient EMPROVE $^{ m s}$ exp Ph Eur, JP, USP
101986	Ethanol absolut suitable for preparative chromatography Ph Eur, BP, USP
100986	Ethanol absolute, suitable for use as excipient EMPROVE $^{\otimes}$ exp Ph Eur, BP, JP, USP
100864	Ethyl acetate EMPROVE® ESSENTIAL 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
107174	Paraffin highly liquid Ph Eur, BP, NF, JP
100909	Petroleum benzine boiling range 40–60°C EMPROVE® ESSENTIAL DAB
107478	1, 2-Propanediol EMPROVE® ESSENTIAL Ph Eur, BP, USP
100995	2-Propanol EMPROVE® ESSENTIAL Ph Eur, BP, JP, USP
Mineral	Salts
142002	Calcium chloride dihydrate EMPROVE® ESSENTIAL Ph Eur, BP, JP, USP, FCC, E 509
106400	Sodium chloride EMPROVE [®] ESSENTIAL Ph Eur, BP, USP
100805	Titanium(IV) oxide EMPROVE® ESSENTIAL Ph Eur, BP, USP, JP, E171
108800	Zinc acetate dihydrate EMPROVE® ESSENTIAL Ph Eur, USP
108846	Zinc oxide EMPROVE® ESSENTIAL Ph Eur, BP, JP, USP

Penetration Enhancers

137117 Dimethyl Sulfoxide EMPROVE® EXPERT Ph Eur, USP

108432 Urea cryst. EMPROVE® API Ph Eur, BP, USP

SAFC[®] Pharma & Biopharma Raw Material Solutions

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Lit. No. MK_BR1944EN w301103 07/2018

