

EXCIPIENTS

for pharmaceuticals



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Abbreviations:

CFR = Code of Federal Regulations

DAB = Deutsches Arzneibuch

DMF = Drug Master File

JPE = Japanese Pharmaceutical Excipients

Ph. Eur. = European Pharmacopeia

USP-NF = United States Pharmacopeia-National Formulary

FOREWORD

With the company CREMER OLEO, the family-owned enterprise CREMER has already had an international presence in over 30 countries since the end of the 1970s and combines the activities in the production and distribution of specialty oleochemical products with long-standing experience in the demand-oriented procurement of raw materials. Its modern production plants and worldwide logistics network make CREMER OLEO a strong partner for the industry.

Based on our business concept of “keeping the focus on the customer and the market“, we pay particular attention to the technical aspects of application and to individual marketing strategies. This way, we meet our own standard of developing high-quality, tailor-made solutions for our customers, adapted to the needs of different markets.

Sustained research and development and a focus on the production of innovative vegetable-based specialties in the production sites Witten, Wittenberge, and Rodleben form the basis for our product range. Our activities are in the following strategic areas of application:

- Personal Care – CREMER Care

■ Pharma – CREMER Health
- Food – CREMER Nutrition

■ Technology – CREMER Performance Chemicals

The results of global and social change can be seen in the demand for new and innovative products. Thus, to CREMER OLEO every customer is unique and requires individual support. As a company characterized by its medium-sized structure, we can understand that. Our highly qualified, motivated employees ensure this high level of service for our customers every day.

Long-term success as the basis for economic stability is more important to us than short-term profit maximisation. Responsibility towards people and the environment, continuous development and optimization of our processes as well as transparent communications – these are the values we stand for. We live these corporate values every day.

For lasting customer satisfaction.



Stefan Cremer
Director and Shareholder
Peter Cremer Holding GmbH & Co. KG



Patrick Knüppel
Director and Spokesman
of the Executive Board



EXCIPIENTS

We have gathered our activities for the pharmaceutical industry under the roof of CREMER HEALTH, with a strong commitment to quality leadership in Oleochemicals.

Our pharmaceutical excipients for topical, oral and rectal applications as well as our oleo-chemical based active pharmaceutical ingredients for enteral and parenteral applications have been enjoying a good reputation for decades.

The WITEPSOL® product range with its different types is the worldwide leading market standard for suppository bases (adeps solidus). Our MIGLYOL® brand comprises our MCT oil as well as related C8-C10 fatty esters. The IMWITOR® product family provides functionalized lipids for drug delivery systems. With DYNASAN, we offer mono-acid triglycerides for various applications requiring precise physico-chemical characteristics.

Highest quality standards are continuously improved and controlled by the relevant German authority and US-FDA as well as throughout regular customer audits by multinational companies. Our strict commitment to quality is underpinned and rewarded with the repeated granting of EU-GMP as well as repeated US-FDA approval.

Our expert team with decades of experience will be happy to provide you with individual solutions for your pharmaceutical formulation.

Liquid lipids

Liquid lipids are fatty acid esters. They are neutral carriers for various pharmaceutical applications. Because of their high polarity, they have superior solvent characteristics for active drugs (compared to hydrocarbons).

Product	Chemical description/monograph name	Listed in
C₈/C₁₀ Triglycerides		
MIGLYOL 808	Tricaprylin	—
MIGLYOL 810 N	Triglycerides, Medium-Chain	Ph. Eur., USP-NF, JPE, US DMF No. 800
MIGLYOL 812 N	Triglycerides, Medium-Chain	Ph. Eur., USP-NF, JPE, US DMF No. 800
MIGLYOL 818	Caprylic/Capric/Linoleic Triglyceride	—
MIGLYOL 829	Caprylic/Capric/Succinic Triglyceride	US DMF No. 10495
MIGLYOL 8108	Caprylic/Capric Triglyceride	—
C₈/C₁₀ Esters		
MIGLYOL 840	Propylene Glycol Dicaprylocaprate	Ph. Eur., USP-NF
MIGLYOL 8810	Butylene Glycol Dicaprylate/Dicaprate	—
Other Esters		
DYNACET 285	Diacetylated Monoglycerides	21 CFR §172.828
MIGLYOL 128	Cocoyl Caprylocaprate	Ph. Eur.
MIGLYOL 1018	Decyl Oleate	Ph. Eur.
MIGLYOL 612	Glyceryl Trihexanoate	—
SOFTISAN 645	Bis-Diglyceryl Polyacyladipate-1	—



Appearance	Viscosity mPa·s 20 °C	Properties and applications
oily liquid *	~ 23	Neutral, stable, penetration enhancer, drug carrier, dermal and oral use, solvent.
oily liquid *	~ 26	Neutral, stable, penetration enhancer, drug carrier, solvent, oral use, dermal use, i.v. applications.
oily liquid *	~ 28	Neutral, stable, penetration enhancer, drug carrier, solvent, oral use, dermal use, i.v. applications.
oily liquid *	~ 33	Neutral, stable, penetration enhancer, drug carrier, solvent, oral use, dermal use, i.v. applications.
oily liquid *	~ 300	Neutral, stable, oil of high viscosity, based on MCT and succinic acid.
oily liquid *	~ 25	Neutral, stable, penetration enhancer, drug carrier, dermal and oral use, solvent.
oily liquid *	~ 11	Oil component, medium to high spreading emollient.
oily liquid *	~ 11	Neutral, stable, penetration enhancer, drug carrier, dermal use, solvent.
oily liquid *	~ 30	Food grade softener, plasticiser and solvent. Stable polaric oil.
oily liquid	n. d.	Fast spreading emollient, refatting agent.
oily liquid *	~ 18	Liquid wax, unsaturated. Petrolatum substitute in pomades.
oily liquid *	~ 15	Neutral, stable, penetration enhancer, solvent, oral use.
yellowish thin liquid syrup	~ 6.000	Liquid lanolin substitute, emollient, high water binding capacity, good adhesion to skin and mucous membranes, non-occlusive.

* Almost colourless and odourless.

Solid triglycerides

Apart from suppository manufacturing, solid triglycerides (hard fats) are used as carriers in capsule fillings, inlets, ointments and creams and in dental products. They also act as surface treatment and binder in tablets.

Product	Chemical description/monograph name	Listed in
Hard fat suppository bases		
WITEPSOL H 5	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL H 12	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL H 15	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL H 19	Hard Fat, Adeps solidus	—
WITEPSOL H 32	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL H 35	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL H 37	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL W		
WITEPSOL W 25	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL W 31	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL W 32	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL W 35	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL W 45	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL S		
WITEPSOL S 51	Hydrogenated Coco-Glycerides + Cetareth-25 + Glyceryl Ricinoleate **	—
WITEPSOL S 55 *	Hydrogenated Coco-Glycerides + Cetareth-25 + Beeswax	—
WITEPSOL S 58	Hydrogenated Coco-Glycerides + Cetareth-25 + Glyceryl Ricinoleate **	—

* Compound, single components Ph. Eur. + USP-NF.

** Compounds contain unsaturated components, interactions with oxygen must be considered.

Solid triglycerides are manufactured through direct esterification of glycerol with defined fatty acid blends and have therefore precise properties regarding melting point, polarity (Hydroxyl Value) and consistency.

All suppository hard fats have a low content of short chain fatty acids (C_8/C_{10}), convenient for improved application. The solid fat index curve is very stable. Hence WITEPSOLs are still solid and applicable, even a few degrees below melting point. EXCEPTION: the more soft adjusted WITEPSOL H 35.

Melting Point °C	Hydroxyl value mg KOH/g	Properties and applications
34.0 to 36.0	max. 5	WITEPSOL H grades are hard fats with a low hydroxyl value of max. 15. They comprise mainly triglycerides with proportions of max. 15% of diglycerides and max. 1% of monoglycerides.
32.0 to 33.5	5 to 15	
33.5 to 35.5	5 to 15	
33.5 to 35.5	20 to 30	They are characterized by a short gap between melting and solidification temperatures, showing a low tendency of post-hardening.
31.0 to 33.0	max. 3	
33.5 to 35.5	max. 3	Shock cooling should be avoided because of their brittleness.
36.0 to 38.0	max. 3	
33.5 to 35.5	20 to 30	WITEPSOL W grades are hard fats with hydroxyl values between 20–50. They comprise a mixture of 65–80% of triglycerides, 10–35% of diglycerides and 1–5 % of monoglycerides. (Correspondingly they have a wider gap between melting and solidification temperatures and are therefore more insensitive (elastic) to shock cooling.) They solidify more slowly. The amount of partial glycerides delays the sedimentation of solid active ingredients and promotes wetting of mucous membranes.
35.5 to 37.0	25 to 35	
32.0 to 33.5	40 to 50	
33.5 to 35.5	40 to 50	
33.5 to 35.5	40 to 50	
30.0 to 32.0	55 to 70	WITEPSOL S grades contain special additives. They are suitable for manufacturing vaginal and rectal preparations, requiring a more intensive wetting of mucosae, a greater dispersability or an enhanced absorption. They all contain an ethoxylated emulsifier (Ph. Eur.) which makes them suitable for use in aqueous or ethanolic/aqueous active ingredients (emulsion suppositories).
ca. 35 ***	50 to 65	
31.5 to 33.0	60 to 70	

*** Due to additive beeswax Ph. Eur. grade, determination of solidification point is recommended.

Solid triglycerides (continued)

Important selection criteria are melting point and hydroxyl value. During formulation developments the tendency of the post hardening effect should be considered. Our technical application department in Witten will be glad to advise you.

Product	Chemical description/monograph name	Listed in
Hard fat suppository bases		
WITEPSOL E 75*	Hydrogenated Coco-Glycerides + Beeswax	US DMF No. 420
WITEPSOL E 76	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
WITEPSOL E 85	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, JPE, US DMF No. 420
SOFTISAN 378	Hard Fat, Adeps solidus	Ph. Eur., USP-NF, US DMF No. 10580
Triglycerides with Melting Point above Body Temperature		
DYNASAN 110	Tricaprin	—
DYNASAN 112	Trilaurin	—
DYNASAN 114	Trimyristin	—
DYNASAN 116	Tripalmitin	—
DYNASAN 118	Glyceryl Tristearate	USP-NF, CFR 21 § 172.811
DYNASAN 122	Tribehenate	FCC
DYNASAN P 60	Hydrogenated Palm Oil	USP-NF
SOFTISAN 154	Hydrogenated Palm Oil	—
WITOCAN 42/44	Hard Fat, Adeps solidus	Ph. Eur., USP-NF

* Compound, single components Ph. Eur. + USP-NF.



Melting Point °C	Hydroxyl value mg KOH/g	Properties and applications
ca. 38 **	max. 15	WITEPSOL E grades are hard fats with a melting range above body temperature. They can be used to raise the melting point in case of active ingredients that decrease the melting point.
37.0 to 39.0	30 to 40	
42.0 to 44.0	5 to 15	
~ 30	7 to 17	Hard fat with softer consistency, similar to natural lard, but stable, odourless, emollient in creams, capsule filling mass.
29–31	max. 10	In powders as fast melting component without the powder being sticked together.
43–46	max. 10	In ointments and creams as body-imparting and structure forming component.
55–58	max. 10	A high melting point lipid for use in modified/sustained release in oral solid dosage matrices. Effective lubricant for tablets/capsules.
61–65	max. 10	A high melting point lipid for use in modified/sustained release in oral solid dosage matrices. Effective lubricant for tablets/capsules. Hot melt extrusion, hot melt coating, solid lipid nanoparticles.
70–73	max. 10	
81–85	max. 10	A high melting point lipid for use in modified/sustained release in oral solid dosage matrices. Effective lubricant for tablets/capsules.
58 to 62	max. 10	Palmitic/stearic triglycerides, suitable for hot melt coating.
53 to 58	max. 10	Suitable for hot melt coating, similar to hydrogenated vegetable oil, USP type I. (Consistency agent, coating, sustained release) Micro fine powder.
42 to 44	max. 15	

** Due to additive beeswax, determination of solidification point is recommended.

Partial glycerides

Partial glycerides are esters of glycerol with fatty acids, whereby only a part of the existing hydroxyl groups is esterified. Some hydroxyl groups within the glycerol ester are free contributing to the polaric properties of the material. Short chain partial glycerides are more polaric and have excellent solvent properties for many poorly solubilize drugs.

Product	Chemical description/monograph name	Listed in
Glyceryl Monostearates (GMS)		
IMWITOR 491	Glyceryl Monostearate	USP-NF
IMWITOR 900 K	Glycerol Monostearate 40–55%, Type II	Ph. Eur., USP*-NF
IMWITOR 900 P	Glycerol Monostearate 40–55%, Type I	Ph. Eur., USP*-NF
IMWITOR 960 K	Glyceryl Monostearate, Self-emulsifying	BP
Short Chain Partial Glycerides		
IMWITOR 308	Glycerol Monocaprylate, Type II	Ph. Eur., USP-NF
IMWITOR 642	Mono-, Di-, Trihexanoate	—
IMWITOR 742	Glycerol Monocaprylocaprate, Type I	Ph. Eur., DAB 1999, USP* -NF, US DMF No. 7705
IMWITOR 928	Glyceryl Cocoate	USP*-NF
IMWITOR 988	Glycerol Monocaprylate, Type I	USP*-NF
Unsaturated Partial Glycerides		
IMWITOR 948	Glycerol Mono-Oleate	Ph. Eur., USP-NF
IMWITOR 990	Glycerol Mono-Oleate	Ph. Eur., USP-NF
SOFTIGEN 701	Glyceryl Ricinoleate **	—

* USP-NF: "Mono- and Diglycerides"

** Compounds contain unsaturated components, interactions with oxygen must be considered.



Appearance	Melting Point °C	Content of monoglycerides	Properties and applications
off-white powder	66 to 77	> 90%	Lipophilic matrix for oral solid dosage forms (granulation, hot melt technique). Tablet lubricant, emulsion stabilizer, dispersing agent for pigments.
off-white powder	54 to 64	40 to 55%	
off-white powder	54 to 64	40 to 55%	
off-white powder	56 to 61	> 30%	Self-emulsifying GMS containing sodium stearate.
solid	27 to 33	> 80%	Emulsifier, co-surfactant, excellent antibacterial properties.
clear, oily liquid	~ 25	45 to 55%	Excellent solvent for active ingredients.
clear, oily liquid	~ 25	45 to 55%	Penetration enhancer, solvent, defoaming agent in effervescent tablets.
white, similar to hard fat	~ 11	40 to 55%	Dispersing agent of solids and oils, solubilizer in suppositories.
clear, oily liquid	~ 30	45 to 55%	Penetration enhancer, solvent.
yellowish to pastry liquid	liquid	> 40%	O/W stabilizer, forms gels in excess water.
off-white	solid	> 90%	O/W stabilizer, forms gels in excess water.
yellowish to pastry liquid	liquid	> 40%	Stabilizer, protects irritated skin, used in vaginal products.



Product	Chemical description/monograph name	Listed in
W/O Emulsifiers (see also partial glycerides)		
IMWITOR 600	Polyglyceryl-3 Polyricinoleate	—
IMWITOR 618	Triglycerol Diisostearate	Ph. Eur., USP-NF
O/W Emulsifiers		
	Basis: Ester	
IMWITOR 491	Glyceryl Monostearate	USP-NF
IMWITOR 900 K	Glycerol Monostearate 40–55%, Type II	Ph. Eur., USP-NF
IMWITOR 900 P	Glycerol Monostearate 40–55%, Type I	Ph. Eur., USP-NF
IMWITOR 960 K	Glyceryl Monostearate, Self-emulsifying	BP
	Basis: Alpha-Hydroxy Acids	
IMWITOR 372 P	Glyceryl Stearate Citrate	—
IMWITOR 375	Glyceryl Citrate/Lactate/Linoleate/Oleate	—

Appearance	HLB	Properties and applications
yellow liquid	~ 4	Food approved W/O emulsifier for systems of low viscosity.
yellow liquid	~ 6	Emulsifier W/O, cold processing.
powder	~ 4 to 5	More than 90% of monoglycerides, stabilizer, stiffening and dispersing agent.
white powder	~ 3	40 to 55% of monoglycerides, used as tablet lubricant, emulsifier and for sustained release.
white powder	~ 3	40 to 55% of monoglycerides, used as tablet lubricant, emulsifier and for sustained release.
flakes	~ 7	Self emulsifying GMS, for dermal use.
flakes	~ 10 to 12	Partly ionic, still oil soluble emulsifiers, similar to lecithin for stable emulsions at pH range 4 to 7.
sticky syrup	~ 11	Suitable for use in the preparation of SMEDDS. Partly ionic, still oil soluble emulsifiers, similar to lecithin for stable emulsions at pH range 4 to 7.

Specialities

Fatty acid esters, further modified or compounded, help creating specific pharmaceutical formulations.

Product	Chemical description/monograph name	Listed in
Special Esters		
CremerlinPURA	Olus Oil	—
MIGLYOL Gel B	Triglycerides, Medium-Chain (and) Stearalkonium Hectorite (and) Propylene Carbonate	—
MIGLYOL 840 Gel B	Propylene Glycol Dicaprylocaprate Dicaprate (and) Stearalkonium Hectorite (and) Propylene Carbonate	—
MIGLYOL Gel T	Triglycerides, Medium-Chain (and) Stearalkonium Bentonite (and) Propylene Carbonate	—
DYNACET 285	Diacetylated Monoglycerides	21 CFR § 172.828
SOFTISAN 601	Glyceryl Cocoate (and) Hydrogenated Coconut Oil (and) Cetareth-25	single ingredients Ph. Eur., USP-NF
SOFTISAN 645	Bis-Diglyceryl Polyacyladipate-1	—
SOFTISAN 649	Bis-Diglyceryl Polyacyladipate-2	US DMF No. 10524
SOFTIGEN 701	Glyceryl Ricinoleate*	—
SOFTIGEN 767	Macrogol 6 Glycerol Caprylocaprate	Ph. Eur., USP-NF, US DMF No. 7705
Glycerine		
CremerPHARM 995	Glycerol	Ph. Eur., USP, JP, BP
CremerGLYC 86,5	Glycerol (85 Per Cent)	Ph. Eur., USP, JP, BP

* Compounds contain unsaturated components, interactions with oxygen must be considered.



Appearance	Melting point °C	Properties and applications
white, semi-solid	~ 45 to 55	Emollient, petrolatum substitute, high occlusivity, non sticky. Base for lotions, creams and ointments.
oleogel, brownish softpaste	N/A	Heat stable oleogels, maintain viscosity between 0 °C and 100 °C. F. i. for water- and temperature resistant formulations. Soft lamellar structure for easy distribution on skin.
oleogel, brownish softpaste	N/A	Emollient creating silky touch, non tacky. Consistency and viscosity stabilizer in emulsions.
oleogel, greenish softpaste	N/A	
clear liquid	liquid	Food grade softener, plasticiser and solvent. Stable polaric oil.
off-white soft pastilles	~ 40 to 45	Waterfree self emulsifying system, ready-to-use O/W cream base, suitable for a variety of pharmaceutical active ingredients.
yellow syrup	—	Liquid lanolin substitute, adhesive to skin and wet mucous membranes, for wound dressing systems and irritated skin, non occlusive.
off-white opaque mass	35	Semi solid lanolin substitute, adhesive to skin and wet mucous membranes, for wound dressing systems and irritated skin, non occlusive.
yellowish substance	25	Skin protective agent, waterdispersible W/O co-emulsifier.
clear liquid	—	Suitable for use in the preparation of SEDDS. Solubilizer for drugs, refatting agent. Soluble in water and polar oils (MCT).
clear, colourless	liquid	Solubilizer, humectant, laxative.
clear, colourless	liquid	Solubilizer, humectant, laxative.

Register of chemical/monograph names



	Chemical/monograph name	Product	Page
B	Bis-Diglyceryl Polyacyladipate-1	SOFTISAN 645	6, 16
	Bis-Diglyceryl Polyacyladipate-2	SOFTISAN 649	16
	Butylene Glycol Dicaprylate/Dicaprate	MIGLYOL 8810	6
C	Caprylic/Capric Triglyceride	MIGLYOL 8108	6
	Caprylic/Capric/Linoleic Triglyceride	MIGLYOL 818	6
	Caprylic/Capric/Succinic Triglyceride	MIGLYOL 829	6
	Triglyceride, Medium-Chain	MIGLYOL 810, 812	6
	Triglyceride, Medium-Chain (and) Stearalkonium Bentonite (and) Propylene Carbonate	MIGLYOL GEL T	16
	Triglyceride, Medium-Chain (and) Stearalkonium Hectorite (and) Propylene Carbonate	MIGLYOL GEL B	16
	Cocoyl Caprylocaprate	MIGLYOL 128	6
D	Decyl Oleate	MIGLYOL 1018	6
	Diacetylated Monoglycerides	DYNACET 285	6

	Chemical/monograph name	Product	Page
G	Glycerol	CremerPHARM 995	16
	Glycerol (85 Per Cent)	CremerGLYC 86,5	16
	Glycerol Monostearate 40–55%	IMWITOR 900 P, 900 K	12, 14
	Glycerol Monocaprylate, Type I	IMWITOR 988	12
	Glycerol Monocaprylate, Type II	IMWITOR 308	12
	Glycerol Monocaprylocaprate, Type I	IMWITOR 742	12
	Glycerol Mono-Oleate	IMWITOR 948, 990	12
	Glyceryl Citrate/Lactate/Linoleate/Oleate	IMWITOR 375	14
	Glyceryl Cocoate	IMWITOR 928	12
	Glyceryl Cocoate (and) Hydrogenated Coconut Oil (and) Cetareth-25	SOFTISAN 601	16
	Glyceryl Mono-, Di-, Trihexanoate	IMWITOR 642	12
	Glyceryl Monostearate	IMWITOR 491	12, 14
	Glyceryl Monostearate, Self-emulsifying	IMWITOR 960 K	12, 14
	Glyceryl Ricinoleate	SOFTIGEN 701	12, 16
	Glyceryl Stearate Citrate	IMWITOR 372 P	14
	Glyceryl Trihexanoate	MIGLYOL 612	6
	Glyceryl Tristearate	Dynasan 118	10

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	Chemical/monograph name	Product	Page
H	Hard Fat, Adeps solidus	SOFTISAN 378 WITEPSOL H 5-H 35 WITEPSOL W 25-W45, E 76, E 85 WITOCAN 42/44	8, 10
	Hydrogenated Coco-Glycerides + Beeswax	WITEPSOL E 75	10
	Hydrogenated Coco-Glycerides + Cetareth-25 + Beeswax	WITEPSOL S 55	8
	Hydrogenated Coco-Glycerides + Cetareth-25 + Glyceryl Ricinoleate	WITEPSOL S 58, S 51	8
	Hydrogenated Coco-Glycerides + Glyceryl Ricinoleate	WITEPSOL H 19	8
	Hydrogenated Palm Oil	DYNASAN P 60, SOFTISAN 154	10
M	Macrogol 6 Glycerol Caprylocaprate	SOFTIGEN 767	16



	Chemical/monograph name	Product	Page
O	Olus Oil	CremerlinPURA	16
P	Polyglyceryl-3 Polyricinoleate	IMWITOR 600	14
	Propylene Glycol Dicaprylocaprate (and) Stearalkonium Hectorite (and) Propylene Carbonate	MIGLYOL 840 Gel B	16
	Propylene Glycol Dicaprylocaprate	MIGLYOL 840	6
T	Tribehenate	DYNASAN 122	10
	Tricaprin	DYNASAN 110	10
	Tricaprylin	MIGLYOL 808	6
	Triglycerol Diisostearate	IMWITOR 618	14
	Trilaurin	DYNASAN 112	10
	Trimyristin	DYNASAN 114	10
	Tripalmitin	DYNASAN 116	10

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of trademarks and product names

	Product	Chemical/monograph name	Page
C	CremerGLYC 86,5	Glycerol	16
	CremerPHARM 995	Glycerol (85 Per Cent)	16
	CremerlinPURA	Olus Oil	16
D	DYNACET 285	Diacetylated Monoglycerides	6, 16
	DYNASAN 110	Tricaprin	10
	DYNASAN 112	Trilaurin	10
	DYNASAN 114	Trimyristin	10
	DYNASAN 116	Tripalmitin	10
	DYNASAN 118	Glyceryl Tristearate	10
	DYNASAN 122	Tribehenate	10
	DYNASAN P 60	Hydrogenated Palm Oil	10



	Product	Chemical/monograph name	Page
I	IMWITOR 308	Glycerol Monocaprylate, Type II	12
	IMWITOR 372 P	Glyceryl Stearate Citrate	14
	IMWITOR 375	Glyceryl Citrate/Lactate/Linoleate/Oleate	14
	IMWITOR 491	Glyceryl Monostearate	12, 14
	IMWITOR 600	Polyglyceryl-3-Polyricinoleate	14
	IMWITOR 618	Triglycerol Diisostearate	14
	IMWITOR 642	Glyceryl Mono-, Di-, Trihexanoate	12
	IMWITOR 742	Glycerol Monocaprylocaprate, Type I	12
	IMWITOR 900 K	Glycerol Monostearate 40-55, Type II	12
	IMWITOR 900 P	Glycerol Monostearate 40-55, Type I	12
	IMWITOR 928	Glyceryl Cocoate	12
	IMWITOR 948	Glycerol Mono-Oleate	12
	IMWITOR 960 K	Glyceryl Monostearate, Self-emulsifying	12, 14
	IMWITOR 988	Glycerol Monocaprylate, Type I	12
	IMWITOR 990	Glycerol Mono-Oleate	12

Register of trademarks and product names



	Product	Chemical/monograph name	Page
M	MIGLYOL 128	Cocoyl Caprylocaprate	6
	MIGLYOL 612	Glyceryl Trihexanoate	6
	MIGLYOL 808	Tricaprylin	6
	MIGLYOL 810	Triglycerides, Medium-Chain	6
	MIGLYOL 812	Triglycerides, Medium-Chain	6
	MIGLYOL 818	Caprylic/Capric/Linoleic Triglyceride	6
	MIGLYOL 829	Caprylic/Capric/Succinic Triglyceride	6
	MIGLYOL 840	Propylene Glycol Dicaprylocaprate	6
	MIGLYOL 840 Gel B	Propylene Glycol Dicaprylocaprate (and) Stearalkonium Hectorite (and) Propylene Carbonate	16
	MIGLYOL 8108	Caprylic/Capric Triglyceride	6
	MIGLYOL 8810	Butylene Glycol Dicaprylate/Dicaprate	6
	MIGLYOL 1018	Decyl Oleate	6
	MIGLYOL Gel B	Triglycerides, Medium-Chain (and) Stearalkonium Hectorite (and) Propylene Carbonate	16
	MIGLYOL Gel T	Triglycerides, Medium-Chain (and) Stearalkonium Bentonite (and) Propylene Carbonate	16

	Product	Chemical/monograph name	Page
S	SOFTIGEN 701	Glyceryl Ricinoleate	12, 16
	SOFTIGEN 767	Macrogol 6 Glycerol Caprylocaprate	16
	SOFTISAN 154	Hydrogenated Palm Oil	8
	SOFTISAN 378	Hard Fat, Adeps solidus	10
	SOFTISAN 601	Glyceryl Cocoate (and) Hydrogenated Coconut Oil (and) Cetareth-25	16
	SOFTISAN 645	Bis-Diglyceryl Polyacyladipate-1	6, 16
W	SOFTISAN 649	Bis-Diglyceryl Polyacyladipate-2	16
	WITEPSOL E 75	Hydrogenated Coco-Glycerides + Beeswax	10
	WITEPSOL E 76	Hard Fat, Adeps solidus	8
	WITEPSOL E 85	Hard Fat, Adeps solidus	8
	WITEPSOL H 5	Hard Fat, Adeps solidus	8
	WITEPSOL H 12	Hard Fat, Adeps solidus	8
	WITEPSOL H 15	Hard Fat, Adeps solidus	8
	WITEPSOL H 19	Hydrogenated Coco-Glycerides + Glyceryl Ricinoleate	8
	WITEPSOL H 32	Hard Fat, Adeps solidus	8
	WITEPSOL H 35	Hard Fat, Adeps solidus	8
	WITEPSOL H 37	Hard Fat, Adeps solidus	8

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Register
of trademarks and product names

	Product	Chemical/monograph name	Page
W	WITEPSOL S 51	Hydrogenated Coco-Glycerides + Ceteareth-25	8
	WITEPSOL S 55	Hydrogenated Coco-Glycerides + Ceteareth-25 + Beeswax	8
	WITEPSOL S 58	Hydrogenated Coco-Glycerides + Ceteareth-25 + Glyceryl Ricinoleate	8
	WITEPSOL W 25	Hard Fat, Adeps solidus	8
	WITEPSOL W 31	Hard Fat, Adeps solidus	8
	WITEPSOL W 32	Hard Fat, Adeps solidus	8
	WITEPSOL W 35	Hard Fat, Adeps solidus	8
	WITEPSOL W 45	Hard Fat, Adeps solidus	8
	WITOCAN 42/44	Hard Fat, Adeps solidus	10

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