

# Pharmaceutical injectable



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Benzyl Alcohol	LKG8494WBH	Super Refined™ Benzyl Alcohol	Liquid	12.9	NF, PhEur, JP	ENDO EP IM IS IV ST SUB	0.9% 1% 0.9 - 2% 0.92% 0.9 - 10.3% or 144 - 180MG 0.92 - 1% 0.9 - 0.95% or 469.8MG	High purity aromatic alcohol can be used as a preservative, solvent, and viscosity reducing agent for injectable dosage forms.
Castor Oil	D5340Y2I9G	Super Refined™ Castor Oil	Liquid	14.0*	USP, PhEur, JP, CHP	IM	30% - None Listed, 274MG**	Highly purified castor oil, used as an emulsifying and solubilising agent.
Cholesterol	97C5T2UQ7J	Cholesterol	Solid		NF, PhEur	IF IV EP	0.47% 0.32 - 0.68% or 52MG 0.33%	Excellent moisturiser with skin conditioning benefits, powerful W/O emulsifier and emulsion stabiliser.
Corn Oil	8470G57WFM	Super Refined™ Corn Oil Super Refined™ Corn Oil NP	Liquid Liquid	7.9*	NF NF, PhEur	IM	None Listed	Highly purified, corn-derived solvent for IM injections.
Cottonseed Oil	H3E878020N	Super Refined™ Cottonseed Super Refined™ Cottonseed NP	Liquid Liquid	7.9*	NF NF	IM	56 - 87.46%	Highly purified, cottonseed-derived solvent and vehicle for injections.
Medium-Chain Triglycerides	C9H2L21V7U	Crodamol™ GTCC	Liquid	10.0*	NF, PhEur	IV SUB	1.1% 990.3MG	Solubiliser and carrier for oil soluble actives. Proven in parenteral applications.
Oleic Acid	2UMI9U37CP	Super Refined™ Oleic Acid	Liquid		NF, PhEur, JPE	IV	0.03%	Highly purified oleic acid that acts as an emulsifier.
Peanut Oil	5TL50QU0W4	Super Refined™ Peanut Super Refined™ Peanut NP	Liquid Liquid	7.8*	NF, PhEur NF, PhEur	IM	None Listed	Highly purified peanut oil ideal for sustained-release and controlled-release IM injections.
PEG-15 Hydroxystearates (Polyoxyl 15 Hydroxystearate)	71YMM1X750	Crodasol™ HS HP	Solid		PhEur	IV	4.4%	A high purity nonionic surfactant which provides excellent solubilisation properties.
PEG 60 Hydrogenated Castor Oil	02NG325BQG	Croduret™ 60	Solid	14.7	PhEur	IV	20%	Nonionic surfactant, emollient and stabilizer.

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical injectable

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Polyethylene Glycol 300	5655G9Y8AQ	Super Refined™ PEG 300	Liquid		NF, PhEur, JPE	IM IV	50 - 56.4% 44.22 - 65%	Highly purified PEG 300 that is used as a solvent, suspending agent and viscosity modifier.
Polyethylene Glycol 400	B697894SGQ	Super Refined™ PEG 400	Liquid		NF, PhEur, JP	IM IV	18% V/V - 20.3% W/V 75.58% or 7470MG	Highly purified PEG 400 used as a solvent, suspending agent and viscosity modifier. Offers enhanced API and formulation stability.
Polyethylene Glycol 600	NL4J9F21N9	Super Refined™ PEG 600	Liquid		NF, PhEur, JPE	IV	5%	Highly purified PEG 600 used as a stabiliser.
Polyoxyl 35 Castor Oil	6D4M1DAL60	Super Refined™ P35 Castor Oil	Liquid	14.0	NF, PhEur, JPE	IM IV SUB	7% 7 - 52.75% or 24945MG** 7%	High purity castor oil derivative can be used as a nonionic solubiliser and emulsifier.
Polysorbate 20	7T1F30V5YH	Tween™ 20 HP Super Refined™ Polysorbate 20	Liquid	16.7	NF, PhEur, JPE, CHP NF, PhEur, JPE, CHP	IM IV SUB	0.16 - 1.62% or 18MG 1% - None Listed None Listed	O/W emulsifier, solubiliser, wetting and dispersing agent. Effective solubilising agent for oil soluble vitamins and essential oils. Minimises drug interaction with the excipient.
Polysorbate 80	6OZP39ZG8H	Tween™ 80 HP Super Refined™ Polysorbate 80 Super Refined™ Polysorbate 80 POA	Liquid	15.0	NF, PhEur, JP, ChP NF, PhEur, JP, ChP NF, PhEur, JP, ChP	IA IB IL IM IS IV MIT	0.19 - 0.2% or 5MG 0.04% 0.19% 0.1 - 5% or 2MG 0.19 - 0.2% 0.5 - 96.3% or 53 - 125MG 0.02%	Low moisture, low peroxide, O/W emulsifier, solubiliser and wetting agent. Recommended when formulating with highly sensitive and unstable APIs. Super Refining removes polar impurities, preventing reactions with APIs and enhancing stability.
Propylene Glycol	6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid	11.6*	USP, JP	IM IV	41.6 - 82.04% 5 - 82.04%	Highly purified propylene glycol for use as a solvent and preservative. Dissolves a wide variety of materials and is similar to ethanol as an antisepti.
Sesame Oil	QX10HY4QV	Super Refined™ Sesame Oil Super Refined™ Sesame Oil NP	Liquid Liquid	7.8*	NF, PhEur, JP NF, PhEur, JP	IM	70% V/V	High purity sesame-derived triglyceride, used as a solvent for sustained-release IM injections.
Sorbitan Monolaurate	6W9PS8B71J	Span™ 20 HP	Liquid	8.6	NF, PhEur, JPE, CHP	IM	0.38%	O/W co-emulsifier soluble in fatty compositions and solvents and dispersible in water, acids and alkalis useful in oral preparations.
Soybean Oil	241ATL177A	Super Refined™ Soybean Oil Super Refined™ Soybean Oil NP	Liquid Liquid	7.7*	USP, PhEur USP, PhEur	IV	2.75 -20%	High purity soy-derived triglyceride used as vehicle and fat source for IV applications.

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical injectable

Key	Route/dosage form
ENDO	ENDOTRACHEAL; INJECTION
EP	EPIDURAL; INJECTION, SUSPENSION, LIPOSOMAL
IA	INTRA-ARTICULAR; INJECTION, SUSPENSION INTRA-ARTICULAR; INJECTION, SUSPENSION, EXTENDED RELEASE
IB	INTRABURSAL; INJECTION
IC	INTRACAVITARY; INJECTION INTRACAVITARY; INJECTION, POWDER, LYOPHILIZED, FOR SOLUTION
IF	INFILTRATION; INJECTABLE, LIPOSOMAL
IL	INTRALESIONAL; INJECTION INTRALESIONAL; INJECTION, SUSPENSION

Key	Route/dosage form
IM	INTRAMUSCULAR; INJECTION INTRAMUSCULAR; INJECTION, SUSPENSION, EXTENDED RELEASE INTRAMUSCULAR; SUSPENSION, EXTENDED RELEASE INTRAMUSCULAR; INJECTION, POWDER, FOR SUSPENSION INTRAMUSCULAR; INJECTION, POWDER, LYOPHILIZED, FOR SOLUTION INTRAMUSCULAR; SOLUTION
IS	INTRASYNOVIAL; INJECTION INTRASYNOVIAL; SUSPENSION, INJECTION
ITY	INTRATYMPANIC; SUSPENSION
IV	INTRAVENOUS; SOLUTION INTRAVENOUS; INJECTION, POWDER, FOR SOLUTION INTRAVENOUS; CONCENTRATE INTRAVENOUS; LIQUID INTRAVENOUS; SOLUTION, CONCENTRATE INTRAVENOUS; INJECTABLE, LIPOSOMAL INTRAVENOUS; INJECTION, POWDER, FOR SUSPENSION INTRAVENOUS; INJECTION, SUSPENSION, LIPOSOMAL INTRAVENOUS; INJECTION, SUSPENSION

Key	Route/dosage form
IVIT	INTRAVITREAL; INJECTION, SUSPENSION
ST	SOFT TISSUE; INJECTION
SUB	SUBCUTANEOUS; INJECTION SUBCUTANEOUS; INJECTION, SOLUTION

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# Pharmaceutical nasal & auricular



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Benzyl Alcohol	LKG8494WBH	Super Refined™ Benzyl Alcohol	Liquid	12.9	NF, PhEur, JP	AO NS	0.9% 5MG/ML or 1.08MG/0.2ML	High purity aromatic alcohol can be used as a preservative, solvent, and viscosity reducing agent.
Castor Oil	D5340Y2I9G	Super Refined™ Castor Oil	Liquid	14.0*	USP, PhEur, JP	NS	214.4MG - None Listed	Highly purified castor oil, used as an emulsifying and solubilising agent.
Cetyl Alcohol	936JST6JCN	Crodacol™ C70 Crodacol™ C95	Pastille Pastille		NF, PhEur	AO	1%	Natural, saturated fatty alcohol that acts as an emulsion thickener and stabiliser.
Cottonseed Oil	H3E878020N	Super Refined™ Cottonseed Super Refined™ Cottonseed NP	Liquid Liquid	7.9*	NF NF	NS	50.5MG	Cotton-derived triglyceride used as a solvent
Glyceryl Monostearate	2300U9XXE4	Cithrol™ GMS 40	Solid	3.4	NF	AO	0.5%	Nonionic, O/W and W/O emulsifier and emulsion stabiliser dispersant and emollient. Forms sustained release matrices.
Isopropyl Myristate	0RE8K4LNJS	Crodamol™ IPM Super Refined™ IPM	Liquid Liquid	10.0*	NF, PhEur NF, PhEur, JPE	AO	3.85% W/W or 0.02% W/W	Solvent used to encourage rapid absorption into skin.
Lanolin	7EV65EAW6H	Medilan™ Medilan™ Super Medilan™ Ultra Pharmalan™	Solid Solid Solid Solid		USP, PhEur USP USP USP	NS	None Listed	Purified medical grade lanolin, serves as a long lasting emollient and moisturiser with exceptional aesthetic properties.
Oleic Acid	2UMI9U37CP	Super Refined™ Oleic Acid	Liquid		NF, PhEur, JPE	NS	0.01% W/W	Highly purified oleic acid that acts as an emulsifier.
Oleth-02	7L6R1SQ6M0	Brij™ O2 Super Refined™ Brij O2	Liquid Liquid	4.9		AO	33MG**	Brij O2 is a naturally derived alcohol ethoxylate. It can be utilised as a solubiliser or in emulsifier systems where a low HLB value is required.
Peanut Oil	5TL50QU0W4	Super Refined™ Peanut Oil Super Refined™ Peanut Oil NP	Liquid Liquid	7.8	NF, PhEur NF, PhEur	AO	48.3%	High purity topical vehicle and solvent.
Petrolatum	4T6H12BN9U	Super Refined™ Petrolatum	Solid		USP, PhEur, JP, CHP	AO	None Listed	Versatile, high-performance petrolatum with improved stability against oil-water separation and excellent oxidative stability.
Polyethylene Glycol 300	5655G9Y8AQ	Super Refined™ PEG 300	Liquid		NF, PhEur, JPE	AO	97.43%	Highly purified PEG 300 used as a solvent and stabiliser.
Polyethylene Glycol 400	B697894SGQ	Super Refined™ PEG 400	Liquid		NF, PhEur, JP	NS	200MG	Highly purified PEG 400 that enhances active and formulation stability.
Polyoxyl 40 Stearate	13A4J4NH9I	Myrj™ S40	Solid	16.7	NF, PhEur, CHP	AO	1%	Nonionic, versatile O/W emulsifier giving systems optimum stability.

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical nasal and auricular

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Polysorbate 20	7T1F30V5YH	Tween™ 20	Liquid	16.7	NF	AO	0.1%	O/W emulsifier, solubiliser, wetting and dispersing agent.
		Tween™ 20 HP	Liquid		NF, PhEur, JPE, CHP	NS	25 - 27MG	
		Super Refined™ Polysorbate 20	Liquid		NF, PhEur, JPE, CHP			
Polysorbate 80	60ZP39ZG8H	Tween™ 80	Liquid	15.0	NF, PhEur	AO	0.02 - 2.5%	Low moisture, low peroxide, O/W emulsifier, solubiliser and wetting agent. Recommended when formulating with highly sensitive APIs.
		Tween™ 80 HP	Liquid		NF, PhEur, JP, CHP	NS	0.05MG - None Listed	
		Super Refined™ Polysorbate 80	Liquid		NF, PhEur, JP, CHP			
		Super Refined™ Polysorbate 80 POA	Liquid		NF, PhEur, JP, CHP			
Propylene Glycol	6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid	11.6*	USP, JP	AO NS	10 - 56.55% or ADJ PH 50MG or 12000MG / 100ML	Highly purified propylene glycol ideal for use as a solvent and preservative. Dissolves a wide variety of materials and useful as an antiseptic.
Sorbitan Monolaurate	6W9PS8B71J	Span™ 20	Liquid	8.6	NF, PhEur	NS	22.9MG	O/W co-emulsifier; dispersible in water, acids and alkalis.
		Span™ 20 HP	Liquid		NF, PhEur, JPE, CHP			
Sorbitan Trioleate	QE6F49RPJ1	Span™ 85	Liquid	1.8	PhEur	NS	0.86% W/W - None Listed	W/O emulsifier and stabiliser in nasal dose forms.

\*Required HLB

\*\* Maximum Daily Exposure

Key	Route / dosage form
AO	AURICULAR (OTIC); OIL AURICULAR (OTIC); DROPS AURICULAR (OTIC); SOLUTION AURICULAR (OTIC); SOLUTION, DROPS AURICULAR (OTIC); SUSPENSION
NS	NASAL; AEROSOL, METERED NASAL; AEROSOL, SPRAY NASAL; GEL NASAL; SOLUTION NASAL; SPRAY NASAL; SPRAY, METERED

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# Pharmaceutical ophthalmic



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Castor Oil	D5340Y2I9G	Super Refined™ Castor Oil	Liquid	14.0*	USP, PhEur, JP, CHP	OE	0.15%	Highly purified castor oil, used as an emulsifying and solubilising agent.
Cetyl Alcohol	936JST6JCN	Crodacol™ C70 Crodacol™ C95	Pastille Pastille		NF, PhEur	OSUS	0.5%	Natural, saturated fatty alcohol that acts as an emulsion thickener and stabiliser.
Glyceryl Monostearate	2300U9XXE4	Cithrol™ GMS 40	Solid	3.4	NF	OSUS	0.5%	Nonionic, O/W and W/O emulsifier and emulsion stabilizer dispersant and emollient. Forms sustained release matrices.
Lanolin Alcohol	884C3FA9HE	Super Hartolan™	Pastille		NF, PhEur	00	10%	Powerful emulsifier and emulsion stabiliser.
Lanolin	7EV65EAW6H	Medilan™ Medilan™ Super Medilan™ Ultra Pharmalan™	Solid Solid Solid Solid		USP, PhEur USP USP USP	00	3% W/W	Purified medical grade lanolin that serves as a long lasting emollient and moisturiser with exceptional aesthetic properties.
Peanut Oil	5TL50QU0W4	Super Refined™ Peanut Oil Super Refined™ Peanut Oil NP	Liquid Liquid	7.8*	NF, PhEur NF, PhEur	AO	48.3%	High purity peanut-derived triglyceride used as a solvent.
PEG-15 Hydroxystearates (Polyoxyl 15 Hydroxystearate)	71YMM1X750	Crodaso™ HS HP	Solid		PhEur	OE	0.25%	A high purity nonionic surfactant which provides excellent solubilisation properties.
Petrolatum	4T6H12BN9U	Super Refined™ Petrolatum	Solid		USP, PhEur, JP, CHP	00	97% W/W	Versatile, high-performance petrolatum with improved stability against oil-water separation and excellent oxidative stability.
Poloxamer 188	LQA7B6G8JG	Synperonic™ PE/F 68	Solid		NF, PhEur	OSOL	0.1%	Effective solubiliser and O/W emulsifier.
Poloxamer 407	TUF2IWW3M2	Synperonic™ PE/F 127	Solid		NF, PhEur	OG OSOL OSUS-D	2% W/W 0.2% 0.1%	Solubiliser used in contact solutions and eyedrops.
Polyethylene Glycol 300	5655G9Y8AQ	Super Refined™ PEG 300	Liquid		NF, PhEur, JPE	00 OSOL	None Listed	High purity solvent and suspending agent.
Polyethylene Glycol 400	B697894SGQ	Super Refined™ PEG 400	Liquid		NF, PhEur, JP	OSOL OSOL-DP	4% W/W 1%	Highly purified PEG 400 that enhances active and formulation stability.
Polyoxyl 35 Castor Oil	6D4M1DAL60	Super Refined™ P35 Castor Oil	Liquid	14.0	NF, PhEur, JPE	OSOL OSOL-D	5% 4.86%	High purity castor oil derivative can be used as a nonionic solubiliser and emulsifier.
Polyoxyl 40 Hydrogenated Castor Oil	7YC686GQ8F	Croduret™ 40	Solid	13.0	NF, PhEur	OSOL OSOL-D	1% 0.53%	Nonionic surfactant, emollient and stabiliser.

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical ophthalmic

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Polyoxyl 40 Stearate	13A4J4NH9I	Myrj™ S40	Solid	16.7	NF, PhEur, CHP	OO OSOL OSUS	None Listed 7% W/W 0.5%	Nonionic, versatile O/W emulsifier giving systems optimum stability.
Polysorbate 20	7T1F30V5YH	Tween™20 Tween™ 20 HP Super Refined™ Polysorbate 20	Liquid Liquid Liquid	16.7	NF NF, PhEur, JPE, CHP NF, PhEur, JPE, CHP	OSUS	0.05%	O/W emulsifer, solubiliser, wetting and dispersing agent.
Polysorbate 80	60ZP39ZG8H	Tween™ 80 Tween™ 80 HP Super Refined™ Polysorbate 80 Super Refined™ Polysorbate 80 POA	Liquid Liquid Liquid Liquid	15.0	NF, PhEur NF, PhEur, JP, CHP NF, PhEur, JP, CHP NF, PhEur, JP, CHP	OD OE OSOL OSOL-D OSOL-GE OSUS OSUS-D	0.05% W/W 4% W/W 0.25% 0.15% 0.05% W/W 0.1% W/W 0.1% W/W	Low moisture, low peroxide, O/W emulsifer, solubiliser and wetting agent. Recommended when formulating with highly sensitive APIs.
Propylene Glycol	6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid	11.6*	USP, JP	OE OG OSOL OSOL-D OSUS OSUS-DP	1.5% 4.4% W/W 1% 0.75% 0.75% 1% V/V	Highly purified propylene glycol ideal for use as a solvent and preservative. Dissolves a wide variety of materials and useful as an antiseptic.

\*Required HLB

\*\* Maximum Daily Exposure

Key	Route / dosage form
OD	OPHTHALMIC, DROPS
OE	OPHTHALMIC, EMULSION
OG	OPHTHALMIC, GEL
OO	OPHTHALMIC, OINTMENT

Key	Route / dosage form
OS-DR	OPHTHALMIC, DROPS
OSOL-D	OPHTHALMIC, SOLUTION, DROPS
OSOL-GE	OPHTHALMIC SOLUTION, GEL FORMING, EXTENDED RELEASE
OSUS	OPHTHALMIC, SUSPENSION
OSUS-D	OPHTHALMIC SUSPENSION, DROPS

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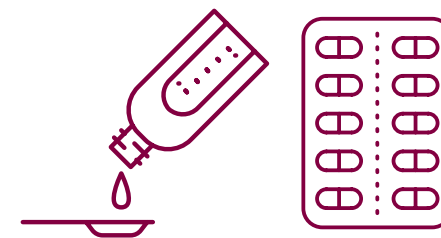
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# Pharmaceutical oral



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Beeswax (White Wax)	7G1J5DA97F	Super Refined™ Beeswax	Solid		NF, PhEur, JP	OCAP OT	15.3 - 18.36MG 0.08 - 14MG	Highly purified beeswax, used in sustained release oral dosage forms.
Benzyl Alcohol	LKG8494WBH	Super Refined™ Benzyl Alcohol	Liquid	12.9	NF, PhEur, JP	OCAP OSOLN OSUS OT	1.23 - 50MG 50MG/ML 100MG** 1.06 - 2.31MG	High purity aromatic alcohol can be used as a preservative, solvent, and viscosity reducing agent.
Caprylocaproyl Polyoxylglycerides 8	00BT03FS02	Crodasol™ CCMG 400 Super Refined™ CCMG 400	Liquid	12.0	NF, PhEur NF, PhEur	OCAP OSOLN	274.7MG or 3623MG** 61.2MG/ML	Mixture of caprylocaproyl macrogolglycerides that demonstrates amphiphilic characteristics and is primarily used in oral pharmaceutical applications.
Castor Oil	D5340Y2I9G	Super Refined™ Castor Oil	Liquid	14.0*	USP, PhEur, JP, CHP	OCAP OG OT SUB	1.04 - 1.76 MG 32.1MG/5ML 0.01 - 23.27MG or None Listed 1.60MG	Highly purified fatty acid triglyceride, ideal for solubilising and emulsifying applications.
Cetostearyl Alcohol	2DMT128M1S	Crodacol™ CS50 Crodacol™ CS90	Pastille Pastille		NF NF, PhEur	OT OCAP	62MG or 800MG** 9.43MG	Stabiliser, co-emulsifier and thickener.
Cetyl Alcohol	936JST6JCN	Crodacol™ C70 Crodacol™ C95	Pastille Pastille		NF, PhEur	OCAP OT	0.96 - 12.5MG 0.25 - 59MG or 9MG**	Natural, saturated, vegetable-derived fatty alcohol used in delayed release applications.
Cetyl Esters Wax	D072FFP9GU	Crodamol™ SS	Pastille	7.0*	NF	OP	None Listed	Vegetable derived bodying agent
Corn Oil	8470G57WFM	Super Refined™ Corn Oil Super Refined™ Corn Oil NP	Liquid Liquid	7.9*	NF, PhEur NF, PhEur	OCAP OSUS OT SUB	918MG 2.5ML/5ML or 2.56MG/5ML 0.03 - 20MG or None Listed 1.7MG	Highly purified corn-derived triglyceride, used in tablets or capsules for oral dosage.
Cottonseed Oil	H3E878020N	Super Refined™ Cottonseed Super Refined™ Cottonseed NP	Liquid Liquid	7.9*	NF NF	OCAP OT	None Listed 0.16MG	Highly purified tablet binder and mild cathartic
Glyceryl Monocaprylocaprate	G7515SW10N	Crodamol™ GMCC	Solid		NF, PhEur	OCAP	375 - 502MG**	A mixture of monoglycerides and diglycerides of caprylic and capric acids. It functions as a skin-conditioning agent/emollient, and as a surfactant/emulsifying agent. It can be prepared by esterification of glycerin with specific fatty acids.

\*Required HLB

\*\* Maximum Daily Exposure



# Pharmaceutical oral

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Glyceryl Monostearate	2300U9XE4	Cithrol™ GMS 40	Solid	3.4	NF, PhEur	OE OT OCAP OG SUB	None listed 0.25 - 264.3MG or 272MG** 2.5 - 32.4MG 1.9MG 1.23 MG	Nonionic emulsifier, W/O and O/W emulsion stabiliser and dispersant, used to form sustained release matrices.
Glyceryl Oleate	4PC054V79P	Cithrol™ GMO HP	Solid	3.0	NF, PhEur	OCAP OP OT	None Listed None Listed 0.15 MG - None Listed	W/O emulsifier and O/W emulsion stabiliser, offering controlled drug release and enhances active bioavailability.
Glyceryl Stearate/ PEG-100 Stearate	RD25J5V947	Arlacel™ 165 FP Arlacel™ 983	Solid Solid	11.0	PhEur PhEur	OT	1.8MG	Versatile nonionic O/W emulsifier mainly used in non-polar oil phases
Medium-Chain Triglycerides	C9H2L21V7U	Crodamol™ GTCC	Liquid	10.0*	NF, PhEur	OCAP OP OSOLN OSUS OT	3.08 - 250MG 3390MG/5ML 946MG/ML 3390MG/5ML 0.34 - 0.87MG	Solubiliser and carrier for oil soluble actives. Also used as a capsule and tablet filler and lubricant.
Oleic Acid	2UMI9U37CP	Super Refined™ Oleic Acid	Liquid		NF, PhEur, JPE	OCAP OT	619.67MG 0.72MG - None Listed	Highly purified oleic acid, used to improve active bioavailability in tablet formulations and soft gel-caps.
Olive Oil	6UYK2W1W1E	Super Refined™ Olive	Liquid Liquid	7.7*		OCAP OSOLN	None Listed 425MG/ML	Olive-derived triglyceride used as oral capsule lubricant.
Peanut Oil	5TL50QU0W4	Super Refined™ Peanut Oil Super Refined™ Peanut Oil NP	Liquid Liquid	7.8*	NF, PhEur NF, PhEur	OCAP OT	313.8MG Non listed	Peanut-derived triglyceride used as a solvent.
Peg-7 Linoleoyl Glycerides	993L80B0ER	Super Refined™ L18 POG	Liquid		NF, PhEur	OCAP	300MG	Low HLB emulsifier and solubiliser of poorly water soluble API's. It also exhibits emolliency, humectancy, and skin penetration enhancement properties. Additionally, it can be used as a primary or secondary emulsifier in SEDDS or SMEDDS formulations.
PEG 8 Stearate	2P9L47VI5E	Myrij™ S8	Solid	10.8	NF, PhEur	OCAP OSUS	25MG/5ML 51MG**	Nonionic, hydrophilic O/W emulsifier stable in presence of electrolytes, acids and alkalis.
Petrolatum	4T6H12BN9U	Super Refined™ Petrolatum	Solid		USP, PhEur, JP, CHP	OCAP OT	0.07 MG 0.18 - 3.5MG	Versatile, high-performance petrolatum with improved stability against oil-water separation and excellent oxidative stability.
Poloxamer 124	1S66E28KXA	Synperonic™ PE/L 44	Liquid			OSUS	0.09MG/ML	O/W emulsifier, cleansing and dispersing agent.
Poloxamer 188	LQA7B6G8JG	Synperonic™ PE/F 68	Solid		NF, PhEur, JPE	OCAP OCAP OG OL OP OSOLN OSUS OT PERIO	3 - 25.1MG 0.25MG/ML 26MG/5ML 0.5MG/ML 25MG/5ML or 30MG** 100MG/ML 100MG/5ML 3 - 66.9MG 55MG	Effective solubiliser and O/W emulsifier, used in toothpaste and mouthwash applications because of its great foaming properties.
Poloxamer 331	IS93EQR73R	Synperonic™ PE/L 101	Liquid			OP OSUS	26.43 - 1000MG/5ML 12.5MG/5ML	W/O emulsifier used as a wetting agent and effective defoamer.

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical oral

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Poloxamer 407	TUF21W3M2	Synperonic™ PE/F 127	Solid			OCAP OP OSOLN OSUS OT PERIO	5 - 117.1MG 0.01MG/MG 50MG/5ML 2.5MG/5ML 106.7 - 110MG 155MG	O/W emulsifier with superior thermo-reversible gelling properties, ideal for drug delivery systems increasing contact of active at target site. Lacks bitter taste making it suitable for toothpaste.
Polyethylene Glycol 300	5655G9Y8AQ	Super Refined™ PEG 300	Liquid		NF, PhEur, JPE	OT	9MG or 2MG**	Highly purified PEG 300 used as a stabiliser.
Polyethylene Glycol 400	B697894SGQ	Super Refined™ PEG 400	Liquid		NF, PhEur, JP	OCAP OCON OF OSOLN OSUS OSY OT	4.4 - 324.5MG or 1378MG** 600MG/ML 4.76MG 562.5MG/ML or 24000MG** 250MG/5ML 74MG/ML 0.8 - 45MG or 2 - 135MG**	Highly purified PEG 400 used as a solvent, suspending agent and viscosity modifier. Offers enhanced API and formulation stability.
Polyethylene Glycol 600	NL4J9F21N9	Super Refined™ PEG 600	Liquid		NF, PhEur, JPE	OCAP OSOLN OT	580.6MG or 658MG** 650MG/5ML 2.5MG - None Listed	Highly purified PEG 600 enhances active and formulation stability.
Polyoxyl 20 Cetostearyl Ether	YRC528SWUY	Cetomacrogol™ 1000	Solid		NF, PhEur	OSUS	20MG**	O/W emulsifier for oral suspension.
Polyoxyl 35 Castor Oil	6D4M1DAL60	Super Refined™ P35 Castor Oil	Liquid	14.0	NF, PhEur, JPE	OCAP OSOLN OSUS OT SUB	599.4MG 50 - 515MG/ML 0.4MG/ML 2 - 5.2MG 2MG	High purity castor oil derivative can be used as a nonionic solubiliser and emulsifier.
Polyoxyl 40 Hydrogenated Castor Oil	7YC686GQ8F	Croduret™ 40	Liquid	13.0*	NF, PhEur	DSOLN OCAP OL OSOLN OT	1% W/W 101.25MG or 3319MG** 102MG/ML 450MG/ML 50MG or 120MG**	Vegetable-derived nonionic O/W emulsifier and stabiliser that is a tasteless solubiliser for vitamins, mouthwashes, essential oils and drug actives.
Polyoxyl 40 Stearate	13A4J4NH9I	Myrj™ S40	Solid	16.7	NF, PhEur, CHP	OCAP OG OT	7MG None Listed 2 - 8.48MG	Nonionic, hydrophilic, water soluble, O/W emulsifier used in combination with other emulsifiers to give optimum stability, opacity and texture
Polysorbate 20	7T1F30V5YH	Tween™ 20 Tween™ 20 HP Super Refined™ Polysorbate 20	Liquid Liquid Liquid	16.7	NF NF, PhEur, JPE, CHP NF, PhEur, JPE, CHP	OCAP OP OSUS OT	56.25MG 1.3MG/5ML 5MG/ML 0.35MG - None Listed or 17MG**	O/W emulsifier, solubiliser, wetting and dispersing agent. Effective solubilising agent for oil soluble vitamins, essential oils and flavours in mouthwashes.
Polysorbate 40	STI11B5A2X	Tween™ 40	Liquid	15.6	NF, PhEur	ODPS OELX OSUS	0.02ML 0.05MG/5ML None Listed	O/W emulsifier, co-solvent and wetting agent.
Polysorbate 60	CAL22UVI4M	Tween™ 60 Tween™ 60 HP Super Refined™ Polysorbate 60	Liquid Liquid Liquid	14.9	NF, PhEur NF, PhEur NF, PhEur, JPE	BU OE OSUS OT	0.23 MG 20MG/ML 25MG/5ML None Listed	O/W emulsifier and solubiliser. Super Refined Polysorbate 60 is extremely mild and enhances stability of formulations.

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical oral

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description	
Polysorbate 80	6OZP39ZG8H	Tween™ 80 Tween™ 80 HP Super Refined™ Polysorbate 80 Super Refined™ Polysorbate 80 POA	Liquid	11.6*	NF, PhEur	OCAP	0.04-418.37MG	Low moisture, low peroxide, O/W emulsifier, solubiliser and wetting agent. Recommend when formulating with highly sensitive and unstable APIs. Super Refining removes polar impurities that prevent reactions with APIs and enhances stability.	
			Liquid		NF, PhEur, JP, CHP	OCON	1MG/ML		
			Liquid		NF, PhEur, JP, CHP	OELX	2.5MG/15ML		
			Liquid		NF, PhEur, JP, CHP	OG	5MG		
						OP	66MG or 15MG/5ML		
						OPST	0.92MG/ML		
						OSOLN	126MG/ML		
						OSUS	10-250MG/5ML or 7.5MG/2.5ML 0.3-24MG or 350MG**		
						OT	None Listed		
						OTRCH	0.08MG		
						SUB			
			Propylene Glycol		6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid		11.6*
	DP	0.5% W/W							
	DON	None Listed							
	DSOLN	2% W/W							
	OCAP	1.7 - 148.31MG or None Listed							
	OCON	7000MG**							
	ODPS	200MG/ML							
	OELX	3108MG/15ML							
	OL	540MG/ML							
	OP	55MG							
	OSOLN	518MG/ML or 3500MG**							
	OSUS	1.25MG/ML, 250MG/5ML or 3000MG** 5700MG**							
	OSY	1.5 - 14.62MG or 25 - 64MG**							
	OT	4.5MG/ML							
	SUB	36MG**							
Propylene Glycol Monolaurate	668Z5835Z3	Super Refined™ PGML	Liquid	4.5	NF, PhEur	OCAP	235MG	High purity mixture of propylene glycol and esters of lauric (C12) acid used for formulating poorly water soluble API's into oral and topical formulations.	
						OT	10 - 20MG**		
Sesame Oil	QX10HYY4QV	Super Refined™ Sesame Oil	Liquid	7.8*	NF, PhEur, JP	OCAP	162.5MG	Highly purified sesame-derived triglyceride, used as a solvent for oil soluble actives in oral capsules, tablets and emulsions	
		Super Refined™ Sesame Oil NP	Liquid		NF, PhEur, JP	OT	None Listed		
Sorbitan Monolaurate	6W9PS8B71J	Span™ 20 Span™ 20 HP	Liquid	8.6	NF, PhEur	OCAP	0.08MG	O/W co-emulsifier which is soluble in fatty compositions and solvents. It is dispersible in water, acids and alkalis and useful in oral preparations.	
			Liquid			NF, PhEur, JPE, CHP	OE		None Listed
							OP		66.7MG
							OSUS		2.5MG/5ML
							OT		66.7MG or 336MG**
Sorbitan Monooleate	06XEA2VD56	Span™ 80 Span™ 80 HP	Liquid	4.3	NF, PhEur	OCAP	1.7 - 153.9MG	W/O emulsifier and O/W emulsion stabiliser used as a wetting agent and dispersant. HP grade offers lower moisture, peroxide and acid levels.	
			Liquid			NF, PhEur	OSOLN		150MG/ML
							OT		0.13 - 7.8MG
Sorbitan Monostearate	NVZ4I0H58X	Span™ 60 Span™ 60 HP	Solid	4.7	NF, PhEur	OSUS	62.5MG/5ML	Stable O/W emulsifier with low odour and colour.	
			Solid			NF, PhEur, JP	OT		3.5MG
Sorbitan Trioleate	QE6F49RPJ1	Span™ 85	Liquid	1.8	PhEur	OCAP	None Listed	W/O emulsifier and O/W emulsion stabiliser used in metered dose forms.	
							OP		1.5MG/5ML
							OT		None Listed

\*Required HLB

\*\* Maximum Daily Exposure

# Pharmaceutical oral

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Soybean Oil	241ATL177A	Super Refined™ Soybean Oil Super Refined™ Soybean Oil NP	Liquid Liquid	7.7*	USP, PhEur USP, PhEur	OCAP OT	129.87 - 283.53MG 0.14MG	Soybean-derived triglyceride used as a vehicle in drug administration.
Squalane	GW89575KF9	Pripure™ 3759	Liquid			OP	0.02MG	Biomimetic skin lipid with excellent spreading and moisturizing properties. Imparts a soft, silky, velvety feel.
Stearyl Alcohol	2KR89I4H1Y	Crodacol™ S95	Pastille		NF, PhEur	OCAP OP OT	72MG 0.11MG 20 - 244MG or 120MG**	Natural, vegetable-derived, saturated fatty alcohol. Insoluble in water and soluble in ethanol.
Sucrose Stearate	274KW0050M	Crodesta™ F160	Solid			OCAP OT	44.57MG 10.89 - 44.56MG	Mild O/W emulsifier that reduces irritation in non-alkaline and non-soap emulsions.

\*Required HLB

\*\* Maximum Daily Exposure

Key	Route/ dosage form
BU	BUCCAL; FILM BUCCAL; FILM, SOLUBLE BUCCAL; GUM, CHEWING
DP	DENTAL; PASTE
DON	DENTAL; OINTMENT
DSOLN	DENTAL; SOLUTION
PERIO	PERIODONTAL; GEL
OCAP	ORAL; CAPSULE ORAL; CAPSULE, COATED ORAL; CAPSULE, COATED, EXTENDED RELEASE ORAL; CAPSULE, COATED PELLETS ORAL; CAPSULE, DELAYED RELEASE ORAL; CAPSULE, EXTENDED RELEASE ORAL; CAPSULE, FOR SUSPENSION ORAL; CAPSULE, LIQUID FILLED
OCON	ORAL; CONCENTRATE

Key	Route/ dosage form
ODPS	ORAL; DROPS
OE	ORAL; EMULSION
OELX	ORAL; ELIXIR
OF	ORAL; FILM, SOLUBLE
OG	ORAL; GRANULE ORAL; GRANULE, FOR SOLUTION ORAL; GRANULE, FOR SUSPENSION
OL	ORAL; LIQUID ORAL; LIQUID, EXTENDED RELEASE
OP	ORAL; POWDER ORAL; POWDER, FOR SOLUTION ORAL; POWDER, FOR SUSPENSION
OPST	ORAL; PASTE
OSOLN	ORAL; SOLUTION ORAL; SOLUTION, CONCENTRATE

Key	Route/ dosage form
OSUS	ORAL; SUSPENSION ORAL; SUSPENSION, DROPS ORAL; SUSPENSION, EXTENDED RELEASE
OSY	ORAL; SYRUP
OT	ORAL; TABLET ORAL; TABLET, CHEWABLE ORAL; TABLET, COATED ORAL; TABLET, COATED PARTICLES ORAL; TABLET, EXTENDED RELEASE ORAL; TABLET, FILM COATED ORAL; TABLET, FILM COATED, EXTENDED RELEASE ORAL; TABLET, ORALLY DISINTEGRATING ORAL; TABLET, ORALLY DISINTEGRATING, DELAYED RELEASE
OTRCH	ORAL; TROCHE
SUB	SUBLINGUAL; SPRAY SUBLINGUAL; TABLET

## Non-warranty

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# Pharmaceutical topical



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Beeswax (White Wax)	7G1J5DA97F	Super Refined™ Beeswax	Solid		NF, PhEur, JP	TON TC TL	7.3% 10% 1%	Highly purified beeswax used to increase viscosity of creams & ointments.
Beeswax (Synthetic)	None Listed	Syncrowax™ BB4	Pastille			TC	3.5%	Beeswax alternative to build viscosity.
Benzyl Alcohol	LKG8494WBH	Super Refined™ Benzyl Alcohol	Liquid	12.9	NF, PhEur, JP	TC TG TL TON TSH TSOLN TSUS TT	1 - 2.7% 2% 2% 2.2% 1.25% 2% 1% None Listed	High purity aromatic alcohol can be used as a preservative, solvent, and viscosity reducing agent.
Castor Oil	D5340Y2I9G	Super Refined™ Castor Oil	Liquid	14.0*	USP, PhEur, JP, CHP	TON TSOLN	14.9% None Listed	Highly purified fatty acid triglyceride, ideal for solubilising and emulsifying applications.
Ceteth-10	LF9X1PN3XJ	Brij™ C10	Solid			TL	2.5%	Waxy O/W emulsifier stable over wide pH range.
Ceteth-20	I835H2IHHX	Brij™ C20	Solid			TC TL TSOL	6% 2% 2%	Versatile, biodegradable O/W emulsifier compatible with nonionic surfactants, most anionic and cationic surfactants, and stable over a wide pH range.
Cetostearyl Alcohol	2DMT128M1S	Crodacol™ CS50 Crodacol™ CS90	Pastille Pastille		NF NF, PhEur	TA TC TL TSPY TON TSUS TT	1.09% 12% 5% 1% 1.2% 2.5% None Listed	Stabiliser, co-emulsifier, thickener used in cream bases.
Cetyl Alcohol	936JST6JCN	Crodacol™ C70 Crodacol™ C95	Pastille Pastille		NF, PhEur	TA TC TE TL TON TSOLN TSUS TSUP	3.2% 45% None Listed 1% 7% None listed 2.01% 0.03MG/MG	Natural, saturated fatty alcohol of non-animal origin is a wax-like emollient and viscosity builder in creams and lotions.

\*Required HLB

# Pharmaceutical topical

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Cetyl Esters Wax	D072FFP9GU	Crodamol™ SS	Pastille	7.0*	NF	TC TL TSUP TT	10.3% 1% None Listed None Listed	Vegetable derived emollient and bodying agent for creams and ointments.
Cetyl Palmitate	5ZA2S6B08X	Crodamol™ CP	Solid	10.0*	NF, PhEur	TC TON TSOLN	0.32% None Listed 0.05%	Dry emollient which improves emulsion texture and stability.
Cholesterol	97C5T2UQ7J	Cholesterol	Solid		NF, PhEur	TC TL TON	1% 1.5% 5%	Excellent moisturiser with skin conditioning benefits, powerful W/O emulsifier and emulsion stabiliser.
Coco-Betaine	03DH2IZ3FY	Crodateric™ CAB 30	Liquid			TSH	6%	Mild surfactant with gentle cleansing properties.
Cocoyl Caprylocaprate	8D9H4QU99H	Crodamol™ CCC	Liquid		PhEur	TG	2.5%	A non-irritating liquid ideal for sensitive site applications.
Corn Oil	8470G57WFM	Super Refined™ Corn Oil Super Refined™ Corn Oil NP	Liquid Liquid	7.9*	NF, PhEur NF, PhEur	TC	None Listed	High purity corn derived triglyceride used as a solubiliser for poorly water soluble API's.
Diethylene Glycol Monoethyl Ether	A1A1I8X02B	Super Refined™ DEGEE	Liquid	16.0	NF, PhEur	TC TG TL TON	15% 49.91% 10% 5%	High purity glycol ether that can enhance the permeation of poorly water-soluble APIs through various layers of the skin.
Diethyl Sebacate	I41B9FJK6V	Crodamol™ SE	Liquid		NF, JPE	TL TSOLN	2.97% 24%	Excellent solubiliser and emulsifier; may be applied as a solvent or dissolution agent.
Diisopropyl Adipate	P7E6YFV72X	Crodamol™ DA	Liquid	9.0*	JPE	TA TC TG TL TSOLN TSPY	5% 7% 1.5% 20% 10.88% 12%	Low viscosity ester with excellent solvency and spreading properties.
Dimethyl Isosorbide	SA6A6V432S	Super Refined™ Arlasolve DMI	Liquid			TA TC	5.44% 15%	Enhances transdermal delivery of actives.
Emulsifying Wax	Multiple	Polawax™	Pastille		NF	TA TC TL TON	1.05% 24.8% 4% 1.5%	Emulsifying wax stable in presence of ions, heat and over a wide pH range. Produce liquid crystal emulsions that promote 'time release' hydration with excellent texture and stability.
Ethyl Oleate	Z2Z439864Y	Crodamol™ EO	Liquid	11.0*	NF, PhEur	TP	14MG	Low viscosity solvent for lipophilic actives.
Ethylhexyl Hydroxystearate	B7I80BVV5E	Crodamol™ OHS	Solid	12.0*		TC	12%	Rich high viscosity branched chain emollient.
Glyceryl Isostearate	HYE7027HAO	Cithrol™ GMS 40	Liquid			TC	2.7%	Low HLB emulsifier and rich emollient.
Glyceryl Monostearate	2300U9XXE4	Cithrol™ GMS 40	Solid	3.4	NF, PhEur	TA TC TLIQ TON TL TSUS	3.27% 20% 1% 5% 9% 1.25%	Nonionic, O/W and W/O emulsifier, emulsion stabiliser, dispersant and emollient. Forms sustained release matrices.
Glyceryl Oleate	4PC054V79P	Cithrol™ GMO HP	Solid	3.0	NF, PhEur	TC TG TSPY	3.5% 1% 0.95%	High purity oleic acid grade enhances active bioavailability. Membrane penetration enhancer.

\*Required HLB,

# Pharmaceutical topical

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Glyceryl Stearate/PEG-100 Stearate	RD25J5V947	Arlacel™ 165 Arlacel™ 983	Solid		PhEur	TC	7.5%	Versatile nonionic O/W emulsifier mainly used in non-polar oil phases. Tolerates the addition of mildly acidic actives and salts.
			Solid		PhEur	TL	6.5%	
Isopropyl Isostearate	C671XB9Y7T	Crodamol™ IPIS	Liquid	10.5*	NF, PhEur	TC	3%	Light, easy spreading emollient offers superb moisturisation and moderate water resistancy.
Isopropyl Myristate	ORE8K4LNJS	Crodamol™ IPM Super Refined™ IPM	Liquid	10.0*	NF, PhEur, JPE	TA	9.3%	Solvent used to encourage rapid absorption into skin.
			Liquid	10.0*	NF, PhEur, JPE	TC	15%	
						TG	0.88% W/V	
						TL	5%	
						TOIL	3.12% W/V	
						TON	35%	
						TP	7MG	
Isopropyl Palmitate	8CRQ2TH63M	Crodamol™ IPP Super Refined™ IPP	Liquid	10.0*	NF, PhEur NF, JPE	TA	7.3%	Easy spreading non-occlusive dry emollient.
			Liquid			TC	5%	
						TG	None Listed	
						TL	5%	
						TON	None Listed	
						TSPY	7.3%	
Isostearic Acid	X33R8U0062	Prisorine™ 3505	Liquid			TC	25%	An exceptionally mild liquid fatty acid that offers a light lubricious feel. It offers film forming properties, making it ideal for use in soaps and liquid cleansers.
						TG	0.2%	
						TON	None Listed	
Isostearyl Alcohol	Q6130CQ44Y	Prisorine™ 3515	Liquid			TC	3%	Easy spreading, liquid fatty alcohol with superior moisturising properties and very light, silky dry skin feel.
						TL	2.5%	
						TON	None Listed	
						TSUS	2.5%	
Lanolin Alcohols	884C3FA9HE	Super Hartolan™	Pastille		NF, PhEur	TC	6%	Hydrophobic vehicle with excellent emollient and moisturising properties. Powerful emulsifier and emulsion stabiliser.
						TL	8%	
						TON	3%	
Laureth-23	N72LMW566G	Brij™ L23	Liquid	16.9	USP/NF, PhEur	TA	1.08%	High HLB nonionic O/W emulsifier. Spreading, wetting, solubilising, cleansing and foaming agent.
						TC	None Listed	
						TE	0.45%	
						TL	None Listed	
Laureth-4	6HQ855798J	Brij™ L4	Liquid	9.7	PhEur	TC	1.1%	Nonionic O/W emulsifier used as solubiliser, wetting agent or dispersant.
						TG	3%	
						TL	1.3%	
						TSOLN	5.22%	
Lanolin	7EV65EAW6H	Medilan™	Solid		USP, PhEur	TC	3%	Purified medical grade lanolin serves as long lasting emollient and moisturiser with exceptional aesthetic properties
		Medilan™ Super	Solid		USP	TE	0.25%	
		Medilan™ Ultra	Solid		USP	TL	1.5%	
		Pharmalan™	Solid		USP	TON	10%	
						TSH	2%	

\*Required HLB

# Pharmaceutical topical

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Medium-Chain Triglycerides	C9H2L21V7U	Crodamol™ GTCC	Liquid	10.0*	NF, PhEur	TA TON TL TSPY TG TC	10.87% 20% 7% 18% 10% 15%	Solubiliser for oil soluble actives, good emollient with excellent oxidative stability
Oleic Acid	2UMI9U37CP	Super Refined™ Oleic Acid	Liquid		NF, PhEur, JPE	TC TG TSOLN	25% 2.5% 7.4%	Highly purified oleic acid used as an emulsifier. Can improve bioavailability of poorly water soluble actives.
Oleth-10/Oleth-5	Multiple	Brij™ O5 Brij™ O10	Liquid Liquid	12.4	NF, PhEur PhEur/EP	TC TSOLN	None Listed None Listed	Primary O/W emulsifier suitable for forming microemulsion gels. Forms clear gels.
Oleth-20	YTH167I2AG	Brij™ O20	Solid	15.5	PhEur PhEur	TSH	0.6%	Extremely effective lipophilic solubiliser.
Oleth-O2	7L6R1SQ6M0	Brij™ O2 Super Refined™	Liquid Liquid	4.9		TOIL	163MG**	Brij O2 is a naturally derived alcohol ethoxylate. It can be utilised as a solubiliser or in emulsifier systems where a low HLB value is required.
Oleyl Alcohol	172F2WN8DV	Super Refined™ Oleyl Alcohol	Liquid		NF, PhEur	TC TG TL TON	10% 1.5% 10% 5%	Highly purified lipid based solubiliser and skin penetration enhancer. Ideal for transdermal delivery systems.
Oleyl Oleate	3X3L452Y85	Super Refined™ Oleyl Oleate	Liquid	7.0*	NF, JPE	TON	2.55%	High purity plant-derived oleate ester that imparts a light skin feel, due to its excellent compatibility with oils and fats.
Olive Oil	6UYK2W1W1E	Super Refined™ Olive	Liquid	7.7*		TL TSOAP TSOLN	27.75% None Listed 0.6%	High purity emolient and lubricant.
Peanut Oil	5TL50QU0W4	Super Refined™ Peanut Oil Super Refined™ Peanut Oil NP	Liquid Liquid	7.8*	NF, PhEur NF, PhEur	TC TOIL	10% 44.00% w/v	High purity topical vehicle and solvent.
PEG-8 Stearate	2P9L47VI5E	Myrj™ S8	Solid	10.8	USP/NF, PhEur	TC TSP	6.66% None Listed	Nonionic, hydrophilic O/W emulsifier. Stable in presence of electrolytes, acids and alkalis.
PEG-25 Propylene Glycol Stearate	X21KPH4633	Myrj™ S25/1	Solid	16.0		TC	2.5%	Mild but powerful nonionic emulsifier.
PEG-60 Hydrogenated Castor Oil	02NG325BQG	Croduret™ 60	Solid	14.7*	PhEur, JSQI	TC TG	1.9% 1.9%	Nonionic surfactant, emollient and stabiliser.
PEG-75 Lanolin	091790X7TB	Solan™ 75/50	Liquid			TA TE TSOLN	1.5% 1.5% 1%	Water soluble lanolin used as solubiliser and emollient.
PEG-100 Stearate	YD01N1999R	Myrj™ S100	Solid	18.8	NF, PhEur	TC TL	2.1% 1%	Nonionic O/W emulsifier useful as auxiliary surfactant to optimise HLB requirements.

\*Required HLB



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Petrolatum	4T6H12BN9U	Super Refined™ Petrolatum	Solid		USP, PhEur, JP	TA TC TE TL TON TSOAP TSP	7.9% 66.4% 7.8% 25% 99.98% 0.85% None Listed	Versatile, high-performance petrolatum with improved stability against oil-water separation and excellent oxidative stability.
Poloxamer 124	1S66E28KXA	Synperonic™ PE/L 44	Liquid		NF, EP	TG TL	0.2% 0.2%	O/W emulsifier with effective cleansing and dispersing properties.
Poloxamer 182	JX0HIX6OAG	Synperonic™ PE/L 62	Liquid			TG	0.2%	Wetting, dispersing and cleansing agent.
Poloxamer 188	LQA7B6G8JG	Synperonic™ PE/F 68	Solid		NF, PhEur/EP, JPE	TC	1%	Effective emulsifier, solubiliser and foamer.
Poloxamer 407	TUF2IWW3M2	Synperonic™ PE/F 127	Solid		NF, PhEur, JPE	TC TG TL TSOLN TSUS	1% 0.2% 1% 0.2% 0.5% W/V	High molecular weight emulsifier and solubiliser. Very effective thermo-reversible gelling agent.
Polyethylene Glycol 300	5655G9Y8AQ	Super Refined™ PEG 300	Liquid		NF, PhEur, JPE	TC TON TL TSOLN	4% 57% 2% 29.7%	Highly purified PEG 300 that enhances active and formulation stability.
Polyethylene Glycol 400	B697894SGQ	Super Refined™ PEG 400	Liquid		NF, PhEur, JP	TA TC TE TG TL TLIQ TON TSOLN TSP TSW	None Listed 7.5% 1.2% 45% 5% 1% 65% 99% None Listed 70%	Highly purified PEG 400 used as a solvent, suspending agent and viscosity modifier. Offers enhanced API and formulation stability.
Polyethylene Glycol 600	NL4J9F21N9	Super Refined™ PEG 600	Liquid		NF, PhEur, JPE	TSOLN	0.3%	Highly purified PEG 600 enhances active and formulation stability.
Polyoxyl 20 Cetostearyl Ether	YRC528SWUY	Cetomacrogol™ 1000	Pastille	15.7	NF, PhEur	TA TC TG TL TSP	5.5% 6% 2% 1% 2.42%	O/W emulsifier for creams and lotions. Solubiliser of essential oils, vitamins and API's with low water solubility
Polyoxyl 40 Hydrogenated Castor Oil	7YC686GQ8F	Croduret™ 40	Liquid	13.0*	NF, PhEur	TC	1%	Nonionic surfactant, emollient and stabiliser.
Polyoxyl 40 Stearate	13A4J4NH9I	Myrij™ S40	Solid	16.7	USP/NF, PhEur, CHP	TA TC TL TON TSP	2.83% 8.8% 3% None Listed None Listed	Nonionic, hydrophilic O/W emulsifier suitable for creams and lotions when used in combination with other emulsifiers to give optimum stability, opacity and texture.

\*Required HLB

# Pharmaceutical topical

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Polysorbate 20	7T1F30V5YH	Tween™ 20 Tween™ 20 HP Super Refined™ Polysorbate 20	Liquid Liquid Liquid	16.7	NF NF, PhEur, JPE, CHP NF, PhEur, JPE, CHP	TA	3.7%	O/W emulsifier, solubiliser, wetting and dispersing agent for actives such as calamine, menthol and phenol.
						TC	0.8%	
						TE	2%	
						TG	5%	
						TL	7.8%	
						TSH	8%	
						TSOAP	0.02%	
TSOLN	15%							
Polysorbate 40	ST111B5A2X	Tween™ 40	Liquid	15.6	NF, PhEur	TC	3%	O/W emulsifier, co-solvent and wetting agent.
						TG	0.2%	
						TL	2%	
						TLIQ	2%	
Polysorbate 60	CAL22UVI4M	Tween™ 60 Tween™ 60 HP Super Refined™ Polysorbate 60	Liquid Liquid Liquid	14.9	NF, PhEur NF, PhEur NF, PhEur, JPE	TA	0.43%	O/W emulsifier used in combination with other surfactants to achieve desired HLB value. An extremely mild emulsifier and solubiliser.
						TC	6.1%	
						TL	5%	
						TON	2%	
						TSH	14.55%	
						TSUP	0.03MG/MG	
						TSUS	2.85%	
TT	None Listed							
Polysorbate 80	6OZP39ZG8H	Tween™ 80 Tween™ 80 HP Super Refined™ Polysorbate 80 Super Refined™ Polysorbate 80 POA	Liquid Liquid Liquid Liquid	15.0	NF, PhEur NF, PhEur, JP, CHP NF, PhEur, JP, CHP NF, PhEur, JP, CHP	TA	0.98%	Low moisture, low peroxide, O/W emulsifier, solubiliser and wetting agent. Recommend when formulating with highly sensitive and unstable APIs.
						TC	5%	
						TE	2.5%	
						TG	8.5%	
						TL	15%	
						TON	0.1%	
						TP	None Listed	
PPG-15 Stearyl Ether	1I118XLS1L	Arlamol™ PS15E	Liquid	10.0*		TG	2%	Exceptional emollient brings velvety skin feel, moisturisation and elasticity.
						TON	15%	
						TSUS	16%	
Propylene Glycol	6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid	11.6*	USP, JP	TA	21.5%	Highly purified propylene glycol for use as a solvent and preservative. Dissolves a wide variety of materials and is similar to ethanol as an antiseptic.
						TC	71.08%	
						TCL	0.02MG/MG	
						TE	8%	
						TG	98.09%	
						TJ	20%	
						TL	30%	
						TON	65%	
						TP	700MG	
						TSH	8%	
						TSOLN	99.98%	
						TSP	40%	
						TSUS	0.75% W/V	
						TSUP	0.2MG/MG	
TSW	34.6%							

\*Required HLB

# Pharmaceutical topical

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Propylene Glycol 11 Stearyl Ether	S4G2JOY0LG	Arlamo™ PS11E	Liquid		USP/NF, PhEur	TA TSUS	5% 16%	Non-occlusive emollient and excellent solvent for a wide range of actives. Acts as a coupling agent to enable compatibility of polar and non-polar oils. Excellent spreader and lubricant.
Propylene Glycol Monolaurate	668Z5835Z3	Super Refined™ PGML	Liquid	4.5	NF, PhEur	TG	3%	High purity mixture of propylene glycol and esters of lauric (C12) acid used for formulating poorly water soluble API's into oral and topical formulations.
Sodium Lauroyl Sarcosinate	632GS99618	Crodasinic™ LS30 Crodasinic™ LS95	Liquid Solid			TL TSH TSUS	0.75% 12.5% 0.75%	Powerful, but mild anionic surfactants, wetting and foaming agents
Sorbitan Monolaurate	6W9PS8B71J	Span™ 20 Span™ 20 HP	Liquid Liquid	8.6	NF, PhEur NF, PhEur, JPE, CHP	TA TC TG	4.74% 0.5% 1%	O/W co-emulsifier, dispersible in water, acids and alkalis
Sorbitan Monooleate	06XE2VD56	Span™ 80 Span™ 80 HP	Liquid Liquid	4.3	NF, PhEur NF, PhEur	TC TE TL TG TON TSPY	3.5% 2.5% 7% 0.2% None Listed 0.25%	Liquid W/O emulsifier and O/W emulsion stabiliser. Used as wetting agent and dispersant for zinc oxide, calamine and penicillin.
Sorbitan Monostearate	NVZ4I0H58X	Span™ 60 Span™ 60 HP	Solid Solid	4.7	NF, PhEur NF, PhEur, JP	TA TC TL TON TSOLN TSPY TSUS TT	0.55% 8% 2.5% None Listed None Listed 4.58% 2.15% None Listed	Stable O/W emulsifier with low odour, pale colour and mild on skin. Used to emulsify fatty alcohols, esters and mineral and silicone oils.
Sorbitan Monopalmitate	77K6Z421KU	Span™ 40	Pastille	6.7	NF, PhEur	TC TL TLIQ TP	2% 0.08% W/V 2% 10.5MG	Highly effective at forming O/W emulsions, particularly when used in combination with Tween 40. Possesses a wax-like structure, useful when rigidity is required in formulations.
Sorbitan Sesquioleate	0W8RRI5W5A	Span™ 83	Liquid	3.7	NF, PhEur	TON	2.5%	W/O emulsifier and O/W emulsion stabiliser.
Soybean Oil	241ATL177A	Super Refined™ Soybean Oil Super Refined™ Soybean Oil NP	Liquid Liquid	7.7*	USP, PhEur USP, PhEur	TSOLN	5.82%	Highly purified oil useful as great natural emollient.
Squalane	GW89575KF9	Pripure™ 3759	Liquid			TA TC TSOLN	2.23% 6% 1%	Biomimetic skin lipid with excellent spreading and moisturising properties. Imparts a soft, silky, velvety feel.
Steareth-10	FD0913P475	Brij™ S10	Solid	12.4	NF, PhEur	TA	None Listed	O/W emulsifier and co-emulsifier with wetting and dispersing properties.
Steareth-100	40H5W9UM87	Brij™ S100	Solid			TC TON	0.6% 0.6%	High HLB vegetable based emulsifier stable over a wide pH range.
Steareth-2	V56DFE46J5	Brij™ S2	Pastille	4.9	NF, PhEur	TA TC TL TON	1.09% 4.5% 0.4% 5%	Produces stable O/W emulsions by forming liquid crystal oleosomes. Tolerant to high levels of electrolytes and extreme pH. Works well with Brij S721.

\*Required HLB

# Pharmaceutical topical

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Stearth-21	53J3F32P58	Brij™ S721	Solid	15.5		TC TL	3% 3%	Stable O/W emulsifier that forms liquid crystalline oleosomes. Works well with Brij S2.
Stearyl Alcohol	2KR89I4H1Y	Crodacol™ S95	Pastille		NF, PhEur	TA TC TL TON TSUP TSUS	1% 30% 1% W/V 8% 0.09MG/MG 2.01%	Natural, saturated fatty alcohol of non-animal origin are wax-like emollients and viscosity builders in creams and lotions. Insoluble in water and soluble in ethyl alcohol.

\*Required HLB

Key	Route/dosage form
TA	TOPICAL; AEROSOL TOPICAL; AEROSOL, FOAM TOPICAL; AEROSOL, METERED TOPICAL; AEROSOL, SPRAY
TC	TOPICAL; CREAM TOPICAL; CREAM, AUGMENTED TOPICAL; CREAM, EMULSION, SUSTAINED RELEASE
TCL	TOPICAL; CLOTH
TD	TOPICAL; DROPS
TDRS	TOPICAL; DRESSING
TE	TOPICAL; EMULSION TOPICAL; EMULSION, AEROSOL FOAM TOPICAL; EMULSION, CREAM TOPICAL; EMULSION, LOTION

Key	Route/dosage form
TF	TOPICAL; FILM
TG	TOPICAL; GEL
TJ	TOPICAL; JELLY
TL	TOPICAL; LOTION
TLIQ	TOPICAL; LIQUID
TOIL	TOPICAL; OIL
TON	TOPICAL; OINTMENT
TP	TOPICAL; PATCH TOPICAL; PATCH, CONTROLLED RELEASE
TSOAP	TOPICAL; SOAP
TSH	TOPICAL; SHAMPOO
TSOLN	TOPICAL; SOLUTION TOPICAL; SOLUTION, LIQUID

Key	Route/dosage form
TSP	TOPICAL; SPONGE
TSPY	TOPICAL; SPRAY
TSUP	TOPICAL; SUPPOSITORY
TSUS	TOPICAL; SUSPENSION
TSW	TOPICAL; SWAB
TT	TOPICAL; TABLET

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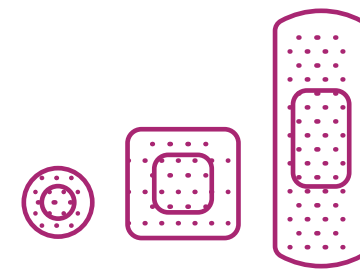
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# Pharmaceutical transdermal



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Diethylene Glycol Monoethyl Ether	A1A118X02B	Super Refined™ DEGEE	Liquid	16.0	NF, PhEur	TG TS	5% 430MG	High purity glycol ether that can enhance the permeation of poorly water-soluble APIs through various layers of the skin.
Diisopropyl Adipate	P7E6YFV72X	Crodamol™ DA	Liquid	9.0*	JPE	TG	1.5%	Low viscosity ester with excellent solvency and spreading properties.
Ethyl Oleate	Z2Z439864Y	Crodamol™ EO	Liquid	11.0*	NF, PhEur	TF-ER	15MG	Low viscosity solvent for lipophilic actives.
Glyceryl Oleate	4PC054V79P	Cithrol™ GMO HP	Solid	3.0	NF, PhEur	TF-ER	18.8MG	High purity oleic acid grade enhances active bioavailability. Membrane penetration enhancer.
Isopropyl Myristate	0RE8K4LNJS	Crodamol™ IPM Super Refined™ IPM	Liquid Liquid	10.0* 10.0*	NF NF, PhEur, JP	TF TF-ER TG TGM TS	58.08MG 20.4MG 1% 1% 7.25MG	Solvent used to encourage rapid absorption into skin.
Isopropyl Palmitate	8CRQ2TH63M	Crodamol™ IPP Super Refined™ IPP	Liquid Liquid	10.0*	NF, JPE NF, JPE	TF TF-ER	1.81MG 187.5MG	Easy spreading non-occlusive dry emollient.
Medium-Chain Triglycerides	C9H2L21V7U	Crodamol™ GTCC	Liquid	10.0*	NF, PhEur	TF-ER	None Listed	Solubiliser for oil soluble actives, good emollient with excellent oxidative stability.
Oleic Acid	2UMI9U37CP	Super Refined™ Oleic Acid	Liquid		NF, PhEur, JPE	TF-ER TS	9.6MG 22MG	Highly purified oleic acid used as an emulsifier. Can improve bioavailability of poorly water soluble actives.
Oleyl Alcohol	172F2WN8DV	Super Refined™ Oleyl Alcohol	Liquid		NF, PhEur	TF TF-ER TG TS	6.11MG 7.45MG 1.5% 5.32MG	Highly purified lipid based solubiliser and skin penetration enhancer. Ideal for transdermal delivery systems.
Oleyl Oleate	3X3L452Y85	Super Refined™ Oleyl Oleate	Liquid	7.0*	NF, JPE	TS	30MG	High purity plant-derived oleate ester that imparts a light skin feel, due to its excellent compatibility with oils and fats.
Propylene Glycol	6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid	11.6*	USP, JP	TF-ER TG	58.13MG 20%	Highly purified propylene glycol for use as a solvent and preservative. Dissolves a wide variety of materials and is similar to ethanol as an antiseptic.
Propylene Glycol Monolaurate	668Z5835Z3	Super Refined™ PGML	Liquid	4.5	NF, PhEur	TF	None Listed	High purity mixture of propylene glycol and esters of lauric (C12) acid used for formulating poorly water soluble API's into oral and topical formulations.
Sorbitan Monooleate	06XEA2VD56	Span™ 80 Span™ 80 HP	Liquid Liquid	4.3	NF, PhEur NF, PhEur	TF-ER TS	None Listed 2.33MG	Liquid W/O emulsifier and O/W emulsion stabiliser. Used as wetting agent and dispersant for zinc oxide, calamine and penicillin.

\*Required HLB \*\* Maximum Daily Exposure

# Pharmaceutical transdermal

Key	Route/dosage form
TF	TRANSDERMAL, FILM
TF-CR	TRANSDERMAL FILM, CONTROLLED RELEASE
TF-ER	TRANSDERMAL FILM, EXTENDED RELEASE
TG	TRANSDERMAL, GEL
TGM	TRANSDERMAL GEL, METERED
TO	TRANSDERMAL, OINTMENT
TP	TRANSDERMAL, PATCH
TP-CR	TRANSDERMAL PATCH, CONTROLLED RELEASE
TP-EC	TRANSDERMAL PATCH, ELECTRONICALLY CONTROLLED
TS	TRANSDERMAL, SYSTEM
TSOL	TRANSDERMAL, SOLUTION

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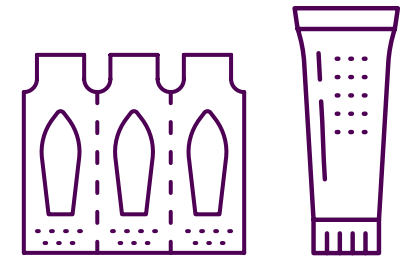
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# Pharmaceutical vaginal/rectal



Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Benzyl Alcohol	LKG8494WBH	Super Refined™ Benzyl Alcohol	Liquid	12.9	NF, PhEur, JP	RG RS VC VS VT	1.55% W/V 129MG 1% None Listed None Listed	High purity aromatic alcohol can be used as a preservative, solvent, and viscosity reducing agent.
Ceteth-20	I835H2IHHX	Brij™ C20	Solid			VTP	None Listed	Versatile, biodegradable O/W emulsifier compatible with nonionic surfactants, most anionic and cationic surfactants, and stable over a wide pH range.
Cetostearyl Alcohol	2DMT128M1S	Crodacol™ CS50 Crodacol™ CS90	Pastille Pastille		NF NF, PhEur	VC VT VS	12% None Listed None Listed	Stabiliser, co-emulsifier and thickener used in cream bases.
Cetyl Alcohol	936JST6JCN	Crodacol™ C70 Crodacol™ C95	Pastille Pastille		NF, PhEur	RA VA VC VS	0.66% 0.75% 4% 0.03MG/MG	Natural, saturated fatty alcohol that is a wax-like emollient and viscosity builder in creams.
Cetyl Esters Wax	D072FFP9GU	Crodamol™ SS	Pastille	7.0*	NF	VC VS VT	3% None Listed None Listed	Vegetable derived emollient and bodying agent for creams and ointments.
Cetyl Palmitate	5ZA2S6B08X	Crodamol™ CP	Solid	10.0*	NF, PhEur	VC	3.30%	Dry emollient which Improves emulsion texture and stability.
Cholesterol	97C5T2UQ7J	Cholesterol	Solid		NF, PhEur	VC	0.3%	Excellent moisturiser, emulsifier and conditioner.
Emulsifying Wax	Multiple	Polawax™	Pastille		NF	RA	1.32 - 1.5%	Emulsifying wax that produces liquid crystal emulsions, promoting 'time release' hydration with excellent texture and stability
Glyceryl Isostearate	HYE7027HAO	Cithrol™ GMIS 40	Liquid	3.4		VC	2.7%	Low HLB emulsifier and rich emollient.
Glyceryl Monostearate	2300U9XXE4	Cithrol™ GMS 40	Solid	3.4	NF, PhEur	VC RS VA	17% 35MG 3%	Nonionic, O/W and W/O emulsifier and emulsion stabiliser, dispersant and emollient
Hard Fat	8334LX7S21	Estaram™ Range (299, H15, W35)	Solid		NF, PhEur	RS	2000MG	Hard fat suppository base with a low hydroxyl value, a low content of mono- and di-glycerides, and a high mono- and di-glycerides content, respectively.
		Supoweiss™ S2	Solid		NF, PhEur			Semi-synthetic glycerides excipient with high plasticity.

\*Required HLB

# Pharmaceutical vaginal/rectal

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Isopropyl Myristate	0RE8K4LNJS	Crodamol™ IPM Super Refined™ IPM	Liquid	10.00*	NF, PhEur, JPE	VC	1%	Solvent used to encourage rapid absorption into skin.
			Liquid		NF, PhEur, JPE	VS	0.01MG/MG	
Lanolin	7EV65EAW6H	Medilan™ Medilan™ Super Medilan™ Ultra Pharmalan™	Solid		USP, PhEur	RO	14%	Purified medical grade lanolin, serves as a long lasting emollient and moisturiser with exceptional aesthetic properties.
			Solid		USP	VC	2%	
			Solid		USP			
			Solid		USP			
Peanut Oil	5TL50QU0W4	Super Refined™ Peanut Oil Super Refined™ Peanut Oil NP	Liquid	7.8*	NF, PhEur	VC	9%	High purity topical vehicle and solvent.
			Liquid		NF, PhEur			
PEG-100 Stearate	YD01N1999R	Myrj™ S100	Solid	18.8	NF, PhEur	VC	None Listed	Nonionic O/W emulsifier used to optimise HLB.
Petrolatum	4T6H12BN9U	Super Refined™ Petrolatum	Solid		USP, PhEur, JP	VCA	None Listed	Versatile, high-performance petrolatum with improved stability against oil-water separation and excellent oxidative stability.
						VO	88.49%	
						RO	75%	
Polyethylene Glycol 400	B697894SGQ	Super Refined™ PEG 400	Liquid		NF, PhEur, JP	RS	0.25MG/MG 30MG	High purity PEG 400 that enhances active and formulation stability.
						VS		
Polysorbate 20	7T1F30V5YH	Tween™ 20 Tween™ 20 HP Super Refined™ Polysorbate 20	Liquid	16.7	NF	VA	3%	O/W emulsifier, solubiliser, wetting and dispersing agent for APIs like calamine, menthol and phenol.
			Liquid		NF, PhEur, JPE, CHP	VS	None Listed	
			Liquid		NF, PhEur, JPE, CHP	VTP	64.8MG	
Polysorbate 60	CAL22UVI4M	Tween™ 60 Tween™ 60 HP Super Refined™ Polysorbate 60	Liquid	14.9	NF, PhEur	RS	0.05MG/MG	O/W emulsifier used in combination with other surfactants to achieve desired HLB value. Super Refined Polysorbate 60 is an extremely mild emulsifier and solubiliser.
			Liquid		NF, PhEur	VC	5%	
			Liquid		NF, PhEur, JPE	VS	0.03MG/MG	
			Liquid			VT	None Listed	
Polysorbate 80	60ZP39ZG8H	Tween™ 80 Tween™ 80 HP Super Refined™ Polysorbate 80 Super Refined™ Polysorbate 80 POA	Liquid	15.0	NF, PhEur	RE	0.01% W/V	Low moisture, low peroxide, O/W emulsifier, solubiliser and wetting agent. Recommended when formulating with highly sensitive and unstable APIs.
			Liquid		NF, PhEur, JP, CHP	RS	72.15MG	
			Liquid		NF, PhEur, JP, CHP	RSOL	0.1% W/V	
			Liquid		NF, PhEur, JP, CHP	VA	3%	
			Liquid			VC	0.4%	
			Liquid			VS	28MG	
Propylene Glycol	6DC9Q167V3	Super Refined™ Propylene Glycol	Liquid	11.6*	USP, JP	RA	47.04% - None Listed	Highly purified propylene glycol for use as a solvent and preservative. Dissolves a wide variety of materials and is similar to ethanol as an antiseptic.
						RG	41.44% W/V	
						RO	3.6%	
						RSUS	11.3% W/V	
						VA	6.4%	
						VC	20%	
						VG	3%	
						VS	252MG	
						VTP	62.1MG	

\*Required HLB



# Pharmaceutical vaginal/rectal

Inactive ingredient	UNII code	Product name	Appearance	HLB	Monograph	Dosage route	Max potency	Product description
Sorbitan Monooleate	06XEA2VD56	Span™ 80 Span™ 80 HP	Liquid Liquid	4.3	NF, PhEur NF, PhEur	RS	22MG	O/W co-emulsifier, dispersible in water, acids and alkalis.
Sorbitan Monostearate	NVZ4I0H58X	Span™ 60 Span™ 60 HP	Solid Solid	4.7	NF, PhEur NF, PhEur, JP	VC VT VS	5% None Listed None Listed	Stable O/W emulsifier with low odour, pale colour and mild on skin. Used to emulsify fatty alcohols, esters, mineral and silicone oils.
Sorbitan Sesquioleate	0W8RRI5W5A	Span™ 83	Liquid	3.7	NF, PhEur	RO	2%	W/O emulsifier and O/W emulsion stabiliser.
Stearyl Alcohol	2KR89I4H1Y	Crodacol™ S95	Pastille		NF, PhEur	VC VS	8.5% 8.5MG	Natural, saturated fatty alcohol is a wax-like emollient and viscosity builder in creams.

\*Required HLB

Key	Route / dosage form
RA	RECTAL; AEROSOL, FOAM RECTAL; AEROSOL, METERED
RE	RECTAL; ENEMA
RG	RECTAL; GEL
RO	RECTAL; OINTMENT

Key	Route / dosage form
RSOL	RECTAL; SOLUTION
RS	RECTAL; SUPPOSITORY
RSUS	RECTAL; SUSPENSION
VA	VAGINAL; AEROSOL, FOAM
VC	VAGINAL; CREAM

Key	Route / dosage form
VCAP	VAGINAL; CAPSULE
VG	VAGINAL; GEL
VS	VAGINAL; SUPPOSITORY
VT	VAGINAL; TABLET
VTP	VAGINAL; TAMPON

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