

Products of POLYGON CHEMICAL LTD.



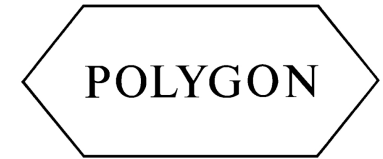
POLYGON

Cosmetics - Raw materials

The product list is not complete. The statements made do not dispense the reader from verifying them.

Product names	INCI	Application
POLYGON PC 1491	Etidronic Acid	Stabiliser for H ₂ O ₂ solutions in hair cosmetics
SABOAMID CDE	Cocamide DEA	Thickener for systems containing surfactants. Very soft feel on the skin. Foam-booster.
SABOAMID MEC	Cocamide MEA	Thickener for systems containing surfactants. Very soft feel on the skin. Foam-booster.
SABODERM AB	C12-15 Alkyl Benzoate	Emollient for creams and lotions, good spreading properties, improves dispersion of pigments (titanium dioxide, zinc oxide)
SABODERM CC	PEG-6 Caprylic/Capric Glycerides	Refatting agent, hydrophilic oil for formulations with surfactants, gels and alcohol-based products. Used in aqueous solutions for wet wipes and hygienic towels.
SABODERM CSN	Cetearyl Isononanoate	Emollient with good hydrotropic properties, well suited for sun care products.
SABODERM CSO	Cetearyl Octanoate	Emollient with good hydrotropic properties, well suited for sun care products. Alternative to uropygial gland fat. Emollient with low occlusivity, not sensitive to oxidation.
SABODERM DBA	Dibutyl Adipate	Slightly oily emollient with good spreading properties for creams and lotions.
SABODERM DC	Cocoglycerides	Polar emollient with average with average spreading properties. Dispersing agents for UVA, particularly suited for sun care products. Dosage: 3-5%
SABODERM DO	Decyl Oleate	Cosmetic oil with excellent skin care properties, oily component for creams, lotions and water-free preparations, chemically close to natural wax esters.
SABODERM DOE	Dicaprylyl Ether	Emollient for light and low fattening emulsions, spreading very well.
SABODERM EDL	Hexyldecanol (and) Hexyldecyl Laurate	Emollient with typical, but low inherent smell. Alternative to low viscous paraffin oils.
SABODERM G 20	(2-) Octyldodecanol	Emollient for creams, deodorants, antiperspirants; solubiliser for lipid-soluble active ingredients.

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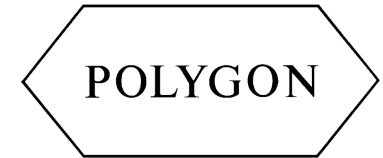


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SABODERM GS	Triisostearin	Emollient for creams and lotions. Solubiliser for lipid soluble active ingredients. Consistency factor. Very gentle to the skin.
SABODERM HE	PEG-7 Glyceryl Cocoate	Re-fattening agent, hydrophilic oil for gels and alcohol-containing formulations.
SABODERM ISN	Isononyl Isononanoate	Emollient for skin care, massage and sun protection creams and lotions.
SABODERM MM	Myristyl Myristate	Emollient for skin care products and decorative cosmetics and sticks, low fattening, melts slightly on the skin, alternative to spermaceti.
SABODERM OC	Diethylhexyl carbonate	Dry emollient for creams and lotions, excellent spreading power, good solubiliser for UV filters, leaves a soft feeling on the skin.
SABODERM ODM	(2-) Octyldodecyl Myristate	Emollient for skin care products and decorative cosmetics and sticks.
SABODERM OO	(2-) Ethylhexyl (2-) Ethylhexanoate	Dry emollient for creams and lotions, very good spreading power, leaves a soft feeling on the skin.
SABODERM OP	(2-) Ethylhexyl Palmitate	Emollient for creams and lotions, medium fattening, excellent spreading power, very good nourishing properties, good solubiliser for active ingredients, dispersing agent for pigments (titanium dioxide, zinc oxide), suitable for alcohol-containing formulations, re-fattening properties in alcohol-soluble systems, alternative to isopropyl myristate
SABODERM OS	(2-) Ethylhexyl Stearate	Dry emollient, easily spreading, substantial oil for emulsions
SABODERM SHO	PEG-200 Hydrogenated Glyceryl Palmate + PEG-7 Glyceryl Cocoate, letzteres ist Saboderm HE	Consistency factor, thickener, re-fattening agent, hydrophilic oil for formulations with surfactants, gels and alcohol containing products. Alternative to alkanolamides as thickener in foam bath and shampoos.
SABODERM TCC	Caprylic/Capric Triglyceride	Emollient with excellent dermatological properties. Hydrotrope for fat-soluble additives, neutral oil.

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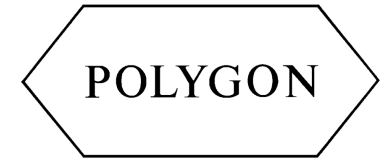


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SABONAL C1618 50/50	Cetearyl Alcohol	Consistency factor for O/W emulsions
SABOPERL 500	Glycol Distearate + Cocamide MEA + Sodium Laureth Sulfate + Laureth-10	Pearl shine concentrate for rinse-off products
SABOQUAT HRC	Cetearyl Alcohol + Octyl Stearate + Cetrimonium Chloride + Cetareth-20	Ready-made cationic emulsifier base for emulsions in hair cosmetics.
SABOSORB MLE	Polysorbate-20	O/W emulsifier, nonionic, hydrotrope for vitamins, fragrances and active ingredients. Secondary surfactant for very mild formulations.
SABOSORB MOE	Polysorbate-80	O/W emulsifier, nonionic, hydrotrope for vitamins, fragrances and active ingredients. Secondary surfactant for very mild formulations.
SABOSORB MPE	Polysorbate-40	O/W emulsifier, nonionic, hydrotrope for vitamins, fragrances and active ingredients. Secondary surfactant for very mild formulations.
SABOSORB MSE	Polysorbate-60	O/W emulsifier, nonionic, hydrotrope for vitamins, fragrances and active ingredients. Secondary surfactant for very mild formulations.
SABOWAX AE	Glyceryl Stearate + Cetareth-20 + Cetareth-12 + Cetearyl Alcohol + Cetyl Palmitate	Self-emulsifying O/W base
SABOWAX BWS	Glyceryl Stearate + Paraffinum liquidum + Cetyl Palmitate	Replacement of bee wax. Coemulsifier.
SABOWAX CP	Cetyl Palmitate	Consistency factor for creams and ointments.
SABOWAX CS 11	Cetareth-12	O/W emulsifier, nonionic, can be used at low dosage. Renders very stable emulsions.
SABOWAX CS 20	Cetareth-20	O/W emulsifier, nonionic, can be used at low dosage. Renders very stable emulsions.
SABOWAX CS 25	Cetareth-25	O/W emulsifier, nonionic, can be used at low dosage. Renders very stable emulsions.
SABOWAX EL 30	PEG-30 Castor Oil	O/W emulsifier, nonionic, hydrotrope for native oils and active ingredients.

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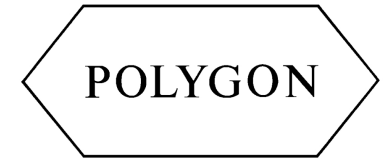


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SABOWAX ELH 40	PEG-40 Hydrogenated Castor Oil	O/W emulsifier, nonionic, hydrotrope for perfumes, fragrances, and native oils.
SABOWAX ELH 40 / L	PEG-40 Hydrogenated Castor Oil	O/W emulsifier, nonionic, hydrotrope for perfumes, fragrances, and native oils. Liquid version with 10% water.
SABOWAX ELH 60	PEG-60 Hydrogenated Castor Oil	O/W emulsifier, nonionic, hydrotrope for perfumes, fragrances, and native oils.
SABOWAX FL 1	Cetearyl Alcohol + Laureth-3 +Cetareth-20	Self-emulsifying ready to use base for stable hair-dye and hair-bleach creams.
SABOWAX FL 20	Cetearyl Alcohol + PEG-20 Stearate	Self-emulsifying O/W base, nonionic, very high stability, suitable for every viscosity. Dosage: 4-8%
SABOWAX FL 65/K	Glyceryl Stearate/PEG-100 Stearate	Self-emulsifying O/W base for lotions and creams, even those with a high content of fatty phase. Stable to acids. For apolar systems and for emulsions containing glycolic acid. Dosage: 5-8%
SABOWAX GMS	Glyceryl Stearate	Wax-like consistency factor for O/W emulsions and water-free formulations. Purely of vegetable origin. Not self-emulsifying.
SABOWAX LM 2	Laureth-2	W/O emulsifier, nonionic, can be used at low dosage. For very stable emulsions and for decorative cosmetics. Thickener for surfactant formulations (shampoos etc.)
SABOWAX LM 23	Laureth-23	O/W emulsifier, nonionic, can be used at low dosage. For very stable emulsions.
SABOWAX LM 3	Laureth-3	O/W emulsifier, nonionic, can be used at low dosage. For very stable emulsions.
SABOWAX O 10	Oleth-10	O/W emulsifier, nonionic; low dosage; for very stable emulsions
SABOWAX O 20	Oleth-20	O/W emulsifier, nonionic; low dosage; for very stable emulsions
SABOWAX OC 2	Cetoeth-2	W/O emulsifier, nonionic, low dosage possible, for very stable emulsions and for decorative cosmetics

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SABOWAX OC 20	Cetoleth-20	O/W emulsifier, nonionic; low dosage; for very stable emulsions
SABOWAX OC 6	Cetoleth-5	O/W emulsifier, nonionic; low dosage; for very stable emulsions
SABOWAX OC 9	Cetoleth-10	O/W emulsifier, nonionic; low dosage; for very stable emulsions
SABOWAX PGHS	Polyglyceryl-2 Dipolyhydroxystearate	PEG-free W/O emulsifier for low viscosity creams.
SABOWAX PIS	PEG-30 Dipolyhydroxystearate	W/O emulsifier for creams and lotions with a very high water phase content.
SABOWAX SE 4	PEG-4 Stearate	W/O emulsifier for creams and lotions
SABOWAX SE 40	PEG-40 Stearate	O/W emulsifier for creams and lotions
SABOWAX SE 6	PEG-6 Stearate	O/W nonionic emulsifier for creams, ointments and lotions. Low dosage, good stability.
SABOWAX SE 8	PEG-8 Stearate	O/W emulsifier for creams and lotions
SABOWAX W	Cetearyl Alcohol + Sodium Lauryl Sulfate	Self-emulsifying O/W anionic base, suitable for creams.
SKINWELL MLC	Myristyl Lactate	Dry emollient and consistency factor for creams and lotions as well as for lipsticks in decorative cosmetics. Long lasting soft feel on the skin. Used as well in foot care products. Solubiliser for solid fragrances and oil-soluble pharmaceutical active ingredients. Dosage: 2-6%
TENSAN CAB	Cocamidopropyl betaine	Amphoteric, high foaming surfactant with good detergency power, solubilising