



SABODERM AB

INCI Name: C12-15 ALKYL BENZOATE

CAS Number: 68411-27-8

HLBr: 12-13

Polarity: very high

Spreadability: Medium

Density 20°C: 0,920-0,940 g/cm³

Refraction index 20°C: 1,4830-1,4870

General Information

Saboderm AB is an emollient, skin feel modifier (makes other oils feel less greasy), an anti-tackiness agent, lubricant, and binder and wetting agent for mineral make-up products. It also works as a solubilizer for sunscreen ingredients, making it easier to incorporate those ingredients into a day-use moisturizer.

Properties

Versatile emollient, a lower molecular weight ester suitable for use in skin care, sun care, deodorant and color cosmetics. Saboderm AB provides a light conditioning and silky after touch to the skin. It's a clear almost colourless, oil soluble ester that is stable in products with pH ranges of 2 to 12.

Applications

- Solubilizer for UV filters and perfumes
- Lubricant and emollient in skin lotion for electrical shave cream
- Wetting agent for pigment dispersion
- Emollient and aluminum salts suspending agent for anti-transpirants and titanium dioxide solar creams.
- Emollient for bath oil, body oil and cream where it's suggested to avoid the oily feel which are typically produced by mineral oil and Isopropyl Myristate.

Use level

Skin care: 1-10%

Sun care: 2-50%

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Sun filter solubility at 25°C

- Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine: **12-13%**
- Butyl methoxydibenzoyl methane: **13-16%**
- Diethylhexyl butamido triazone: **23%**
- Diethylamino hydroxybenzoyl hexyl benzoate: **18-23%**
- Ethylhexyl triazone: **4,5%**
- Benzophenone-3: **12-15%**
- 4-Methyldibenzylidene Camphor: **25-30%**

Regulatory information

See DATA SET document for further information

Safety and toxicology

SEE MSDS and DATA SET document for further information

Guideline formulations

Sun Protection Hairspray (Cod. SPH30-556OC04)

Technical Application Sheet

Ingredients and functions

Product Name	INCI	%	Function	Notes
Phase I		100,0000		
Saboderm G 20	Octyldodecanol	19,0000	Emollient	
Saboderm AB	C12-15 Alkyl Benzoate	45,0000	Emollient	
Saboderm GS	Triisostearin	3,0000	Emollient	
Saboderm PGDD/PH	Propylene Glycol Dicaprylate/Dicaprate	14,0000	Emollient	
Ethylhexyl methoxycinnamate	Ethylhexyl methoxycinnamate	9,0000	UV-B Filter	
Diethylamino hydroxybenzoyl hexyl benzoate	Diethylamino hydroxybenzoyl hexyl benzoate	9,0000	UV-A Filter	
Vitamin E	Tocopherol	1,0000	Antioxidant	
Total		100,0000		

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Sun Cream SPF 50 (Cod. CS311015S)

Technical Application Sheet

Ingredients and functions

Name Product	INCI	%	Function
Phase I		49,0000	
SABOWAX B 25	Beheneth-25	4,0000	O/W Emulsifier
SABODERM AB	C12-15 Alkyl benzoate	5,0000	Emollient
SABODERM TCC	Caprylic-capric triglyceride	5,0000	Emollient
SABODERM CV	Coco caprylate	3,0000	Emollient
SABODERM DBA	Dibutyl adipate	2,0000	Emollient
SABODERM PGDD	Propylene Glycol Dicaprylate Dicaprate	3,0000	Emollient
ETHYLEXYL METHOXYCINAMMATE	Ethylexyl methoxycinnamate	10,0000	UVB Filter
BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	Bis-ethylhexyloxyphenol methoxyphenyl triazine	7,0000	UVA + UVB Filter
DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	Diethylamino hydroxybenzoyl hexyl benzoate	10,0000	UVA Filter
Phase II		45,4100	
GLICERIN 99,5	Glycerin	2,0000	Solvent Humectant
SABOFLOW VL	Sodium polyacrylate, Hydrogenated polydecene, Trideceth-6	0,7000	Emulsifying Polymer Rheology Modifier
SABOGEL CR	Carbomer	0,2000	Rheology Modifier
WATER DEMIN.	Aqua	42,5100	Solvent
Phase III		5,5900	
ZEA MAYS (CORN) STARCH	Zea Mays (Corn) Starch	4,0000	Texturizing agent
PARFUM	Parfum	0,5000	Perfume
PRESERVATIVE	Phenoxyethanol, Ethylhexylglycerin	1,0900	Preservative
Total		100,0000	

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Moisturizing Night Mask (Cod. MST101017S)

Technical Application Sheet

Ingredients and functions

Product Name	INCI	%	Function	Notes
Phase I		26,0000		
SABOWAX G 40	Glyceryl Stearate	5,0000	Emulsifier	
SABONAL C1618 50/50	Cetearyl Alcohol	6,0000	Consistency Factor	
SABODERM AB	C12-15 Alkyl Benzoate	4,0000	Emollient	
SABODERM TCC	Caprylic/Capric Triglyceride	5,0000	Emollient	
-	Butyrospermum Parkii Butter	5,0000	Emollient	
STEARINA VEG.	Stearic Acid, Palmitic Acid	1,0000	Emulsifier	
Phase II		68,8000		
Water, Demin.	Aqua	65,2000	Solvent	
-	Xanthan Gum	0,6000	Rheology Modifier	
Glicerin 99,5	Glycerin	3,0000	Humectant solvent	
Phase III		5,2000		
SABOMEL-A	Pyrus Malus (Apple) Seed Oil, Coco-Caprylate, Caprylic/Capric Triglyceride	1,0000	Active Emollient	
-	Glycerin, Aqua, Ginko Biloba Leaf Extract	1,0000	Active	
-	Glycerin, Aqua, Triticum Aestivum Germ Extract	1,0000	Active	
-	Aloe Barbadensis Leaf Juice	1,0000	Active	
Preservative	Phenoxyethanol, Ethylhexylglycerin	1,0000	Preservative	
Avena Bio RS45770	Parfum	0,2000	Fragrance	
Total		100,0000		

Review N°02

Date of review: 31/01/2018

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