

Firmenich



AMBROX[®] SUPER

INNOVATIVE CRAFTSMANSHIP IN FRAGRANCES AND FLAVORS SINCE 1895

“Pioneering AMBROX® discovery and the following synthesis, Firmenich captured the quintessence of mysterious ambergris, giving perfumers access to a wider range of ingredients than natural extracts”.

Pierre-Alain Blanc, Master Perfumer

From its discovery by Firmenich in the 1950's to its breakthrough new production process via **white biotechnology** in 2016, AMBROX® SUPER delivers all the promises of sleek elegance and powerful iconic **amber signature**.

Sparkling sensuality, AMBROX® SUPER offers **musky** and **woody** tonalities to the emblematic family of amber ingredients.

“AMBROX® SUPER is one of the molecules which surprised me the most. With its unparalleled depth, it exudes a timeless natural sensuality.”

Alberto Morillas, Master Perfumer

Firmenich

AMBROX® SUPER history and legacy

2016

First commercial scale-up of AMBROX® SUPER on Firmenich white biotechnology platform

2014

Firmenich releases AMBROX® SUPER on the market

1993

Firmenich launches CETALOX®

1988

Firmenich invents and launches a new 100% chemical synthesis route to avoid the clarysage shortage: AMBROX® DL

1954

GRISAMBROL, including both AMBROX® and AMBRINOL

1952

FIXATEUR 404, based on approximately 10% of AMBROX®

1950

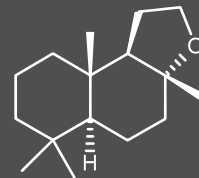
Firmenich discovers the chemical structure of AMBROX® and AMBRINOL, part of natural ambregris (L. Ruzicka - Nobel prize in 1939, M. Stoll and E. Lederer). The same year, Firmenich patents the synthesis route of AMBROX® L from Sclareolide (ex a natural compound, Sclareol extracted from Clary sage)

1930

Firmenich initiates a vast research program on the composition of ambregris

AMBROX[®] SUPER - 909158

AMBERY - MUSK - WOODY



REFERENCES

Firmenich Code	909158
CAS Number	0006790-58-5
Solvent	None added
Stabilizer	None added

PHYSICO-CHEMICAL PROPERTIES

Molecular weight	236
Flash Point	>100°C
Vapor Pressure	0.06 Pa at 20°C
Log p (measured)	7.13

RECOMMENDED

APPLICATIONS	STABILITY	TYPICAL % USE	SUBSTANTIVITY & REMARKS	
Fine Fragrance	Excellent	traces - 5%	Heart and base note	
Shampoo	Excellent	traces - 0.5%	Wet: Excellent	Dry: Excellent
Shower Gel	Excellent	traces - 0.5%	Bloom: Excellent	
Soap	Excellent	traces - 0.1%	Foam: Excellent	Dry hand: Excellent
Detergent	Good	traces - 0.5%	Wet: Good	Dry: Excellent
Softener	Excellent	traces - 0.5%	Wet: Excellent	Dry: Excellent
APC	Good	traces - 0.1%		
Candle	Excellent	traces - 0.1%	Cold wax: Good	Burning: Good

Tenacity: Lasts more than 1 month on a smelling strip.



PEPPER SICHUAN SFE

Expertly extracted from the **highest quality** pods sourced in Southwest China's provinces of Yunnan, Sichuan and Chongqing, Firmenich Pepper Sichuan SFE invites a touch of lush exotic landscapes to fine fragrance compositions.

Firmenich "savoir-faire" in Supercritical Fluid Extraction crafts to perfection the profile of Sichuan Pepper, a precious **spice** sparkling with **citrus** and **woody** facets.

PEPPER SICHUAN SFE - 974611

SPICY - GREEN

For an Eau de Toilette at 10%

209210 Formula

Cis-3-Hexenol	1
Oakmoss Synth	1
Tagete EO	2
Citral	5
Dihydro Beta Ionone	5
Dihydromyrcenol	5
FR Vetiver Haiti EO	5
Methyl Pamplemousse	10
FR Ambrox® 10%	20
FR Florol®	20
FR Polysantal®	20
Triethyl Citrate	46
Bergamot EO	50
Orange EO	50
FR Coranol	100
FR Habanolide®	100
Iso E Super® (IFF)	100
Lemon EO	100
FR Sclareolate®	150
FR Hedione®	200
FR Pepper Sichuan SFE	10
Total	1000

Pepper Sichuan SFE sustains the typical fresh and zesty profile of the accord. It discretely brings nutmeg and tea hints.

For an Eau de Toilette at 10%

209220 Formula

FR Evodia EO	1
FR Ginger Africa SFE	1
Coumarin	2
FR Galbanum Resinoide	2
FR Cardamom Guatemala EO	3
Thymol	3
FR Angelica Seeds EO	5
Eucalyptus ABS	10
Olibanum Resinoide 50%	10
Eucalyptus Globulus EO	15
FR Rhubofix®	15
Bergamot	20
Gaiac ARR	25
FR Cedarwood Virginia EO	100
FR Clearwood®	100
Triethyl Citrate	178
FR Hedione®	200
Iso E Super® (IFF)	300
FR Pepper Sichuan SFE	10
Total	1000

Pepper Sichuan SFE brings here its famous tingling effect with fresh and citrus facets.

In version B, Pepper Sichuan SFE is replaced by DIPG.



CEDARWOOD ALASKA EO

Exclusively sourced from our **partnership** in British Columbia, Cedarwood Alaska EO comes from the **sustainable** forest husbandry.

Sparkling with a fresh and breezy grapefruit crisp, the profile combines spicy, aromatic and linear woody hints for a long lasting sensory experience.

By exploring the wild powerful impact of this **multifaceted treasure**, perfumers will unlock new **creative potential**.

CEDARWOOD ALASKA EO- 967442

WOODY - CITRUS

For a Candle at 10%

209065 Formula

Ambrettolide	1
FR Cardamom Guatemala EO	2
FR Damascone Beta	2
Eugenol	2
FR Labdanum ABS / 50% DPG	2
Vanillin	2
Undecalactone Gamma	3
Cinnamic Aldehyde	5
Ylang Ill	5
Cypress EO	10
FR Muscenone®	10
FR Muscone	10
Cedrol	30
Linalol	50
FR Polysantol®	50
FR Habanolide®	80
Methylionone Alpha Iso	100
Triethyl Citrate	101
FR Cedarwood Virginia EO	150
Iso E Super® (IFF)	180
FR Clearwood®	200
FR Cedarwood Alaska EO	5
Total	1000

Cedarwood Alaska EO goes throughout and crosses the entire profile. It brings structure and gives a warm and rich woody effect.

In version B, Cedarwood Alaska EO is replaced by Triethyl Citrate.

For an Eau de Toilette at 10%

209208 Formula

Coumarin	1
Cumin EO	1
Oakmoss Synth	1
Black Pepper EO	2
Nutmeg EO	3
FR Vetiver Haiti EO	3
Ethyl Maltol 1%	5
Orange Florida EO	9
FR Cardamom Guatemala EO	10
Phenylethyl Alcohol	10
FR Sclareolate®	10
Citronellol	15
Hexylcinnamic Aldehyde	15
FR Coranol	25
Ionone Beta	25
Bergamot	30
Ethyl Linalol	40
Triethyl Citrate	90
FR Clearwood®	145
FR Cedarwood Virginia EO	150
FR Hedione®	200
Iso E Super® (IFF)	200
FR Cedarwood Alaska EO	10
Total	1000

In this composition, Cedarwood Alaska EO brings body and complexity. It supports with elegance the spicy notes.

In version B, Cedarwood Alaska EO is replaced by DIPG.

Firmenich



HONEY SIGNATURE

Firmenich SigNature ingredients are born from synergy between **Science, Nature and Creativity.**

Showcasing Firmenich process expertise applied to high quality natural ingredients, Honey SigNature expertly blends natural honey extract with synthetic captives.

Incredibly gourmand, it imparts a natural and **contemporary** touch to fine fragrance.

INNOVATIVE CRAFTSMANSHIP IN FRAGRANCES AND FLAVORS SINCE 1895

HONEY SIGNATURE - 942539

GOURMAND

For an Eau de Toilette at 10%

209209 Formula

Civette Synth	2
FR Oud Laos SigNature	2
Guaiacol	3
FR Labdanum ABS / 50% DPG	3
Safraline	3
Coumarin	5
Nussol Extra	5
FR Polysantol®	5
Vanillin	5
Cinnamic Alcohol	10
Phenylethyl Alcohol	20
FR Cedarwood Virginia EO	50
FR Norlimbanol®	50
Triethyl Citrate	90
Abalyn	100
FR Ambrox® 10%	100
FR Dartanol®	100
Guaiacwood	100
FR Clearwood®	150
FR Iso E Super® (IFF)	192
FR Honey SigNature	5
Total	1000

In this composition, Honey SigNature gives a sweet and gourmand effect to a dry woody heart while combining animalic notes with elegance. The tobacco effect is enhanced.

For an Eau de Toilette at 10%

209219 Formula

Anethole 10%	1
Undecalactone Gamma	1
Bergamot EO	3
FR Calone® 10%	5
Coumarin	5
Dihydromyrcenol	5
Phenylacetic Aldehyde 1%	5
FR Muscenone®	10
Rose Oxide	10
Rosinol	10
Hydroxycitronellal	20
Hexylcinnamic Aldehyde	40
FR Ambrox® 10%	50
FR Cedarwood Super Rect	50
FR Clearwood®	50
FR Hedione®	50
Phenylethyl Alcohol	50
Dipropylene Glycol	114
FR Exaltolide®	120
FR Florol®	120
Iso E Super® (IFF)	130
FR Helvetolide®	150
FR Honey SigNature	1
Total	1000

Even at very low dosage, Honey SigNature brings strength, warm gourmand effect and oriental facets to the composition.

In version B, Honey SigNature is replaced by DIPG.

Firmenich



LILYFLORE®

INNOVATIVE CRAFTSMANSHIP IN FRAGRANCES AND FLAVORS SINCE 1895

With **volume in excess**, LILYFLORE® is designed to surprise.

Its **delicate white floral** and lily of the valley bouquet, leaves place gradually to an **incredible strength** and a beaming pure performance.

Non sensitizing and extremely stable, the dynamics of its profile offers, in all application, an endless source of creativity.



For a Shower gel at 1%

209062 Formula

Methyl Salicylate	2
Ylang III	5
Decalactone Gamma	10
Helional™ (IFF)	10
Vanillin	20
Cis-3-Hexenyl Salicylate	50
Fr Habanolide®	50
Linalol	50
Phenylethyl Salicylate	50
Benzyl Acetate	100
Fr Hedione®	100
Dipropylene Glycol	248
Benzyl Salicylate	300
Fr Lilyflore®	5
Total	1000

Lilyflore® expands the Tiaré (*Gardenia tahitensis*) floral effect in this solar composition. With more long lastingness, it gives a 3D dimension to this dream flower.

For an Eau de Toilette at 10%

209064 Formula

Eugenol	1
Indol	1
Oakmoss Synth 10%	2
Styrallyl Acetate	2
Undecalactone Gamma 10%	4
Cyclamen Aldehyde	10
Ylang III	10
Bergamot	15
Cis-3-Hexenol	15
Cis Jasmone	15
Padma	25
Geraniol	30
Jasmal	30
Citronellyl Acetate	40
Ethyl Linalol	40
Fr Carbinol Muguet	50
Hydroxycitronellal	50
Dipropylene Glycol	70
Fr Hedione®	95
Citronellol	100
Benzyl Acetate	120
Phenylethyl Alcohol	270
Fr Lilyflore®	5
Total	1000

Lilyflore® just simply brings the right note of white flowers' bouquet by enhancing the lily of the valley facets.

In version B, Lilyflore® is replaced by DIPG.

LILYFLORE® - 955210

FLORAL - MUGUET



REFERENCES

Firmenich Code	955210
CAS Number	0285977-85-7
Solvent	None added
Stabilizer	None added

PHYSICO-CHEMICAL PROPERTIES

Molecular weight	176
Flash Point	>100°C
Vapor Pressure	0.4 Pa at 20°C
Log p (measured)	2.94

RECOMMENDED

APPLICATIONS	STABILITY	TYPICAL % USE	SUBSTANTIVITY & REMARKS	
Fine Fragrance	Excellent	traces - 5%	Top, heart and base note	
Shampoo	Good	traces - 5%	Wet: Good	Dry: Good
Shower Gel	Good	traces - 5%	Bloom: Good	
Soap	Excellent	traces - 5%	Foam: Good	Dry hand: Good
Detergent	Excellent	traces - 2%	Wet: Excellent	Dry: Excellent
Softener	Excellent	traces - 2%	Wet: Excellent	Dry: Excellent
APC	Good	traces - 2%		
Candle	Good	traces - 5%	Cold wax: Good	Burning: Good

Tenacity: Lasts 1 month on a smelling strip.