

FRAGRANCES & AROMA CHEMICALS





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KIREI LIFE STYLE PLAN

Enriching the lives of consumers around the world

Kao believes that the Kirei Lifestyle, our ESG strategy, is the most important factor of all in helping customers achieve sustainable and fulfilling lifestyles. The Kirei Lifestyle Plan is a framework for stepping up innovation in every aspect of our business so that we can generate even more value for people and make further contributions to society.



We will aim to empower all people, at least 1 billion by 2030, to enjoy more beautiful lives — greater, easier aging, better health and cleanliness confidence in self expression



100% of Kao brands will make it easy for people to make small but meaningful choices that, together, will shape a more resilient and compassionate society

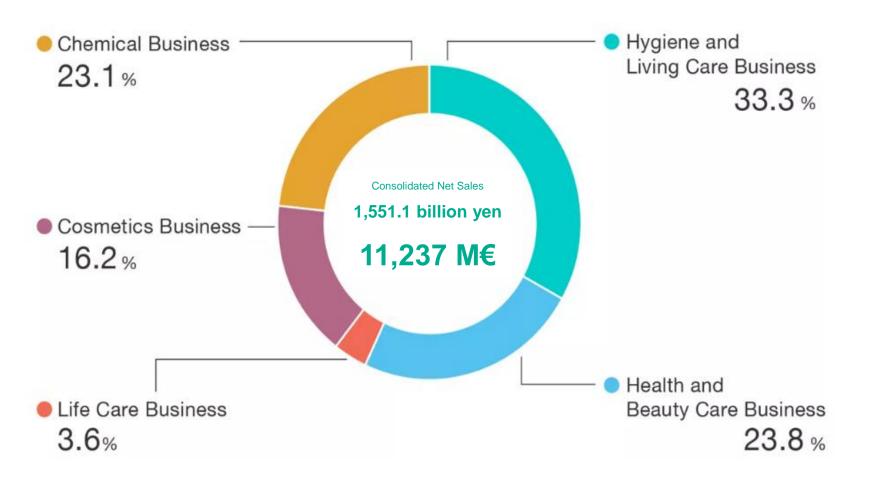


100% of our products will leave a full life cycle environmental footprint that science says our natural world can safely absorb

OVERVIEW OF KAO'S BUSINESS

SALES COMPOSITIONS BY SEGMENT

Consolidated Net Sales (FY2022)



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KAO CHEMICALS EUROPE

Kao Chemicals Europe

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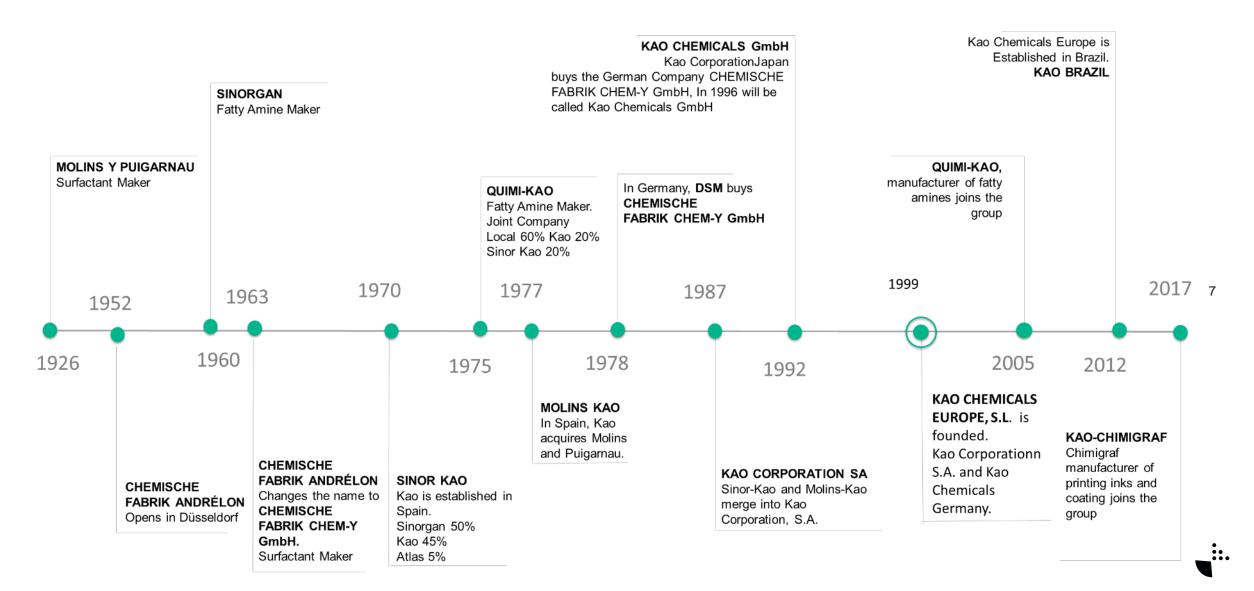
HEADQUARTERS

Kao Chemicals Europe, S.L. Puig dels Tudons, 10 Pol. Ind. Santiga - 08210 Barberà del Vallès BARCELONA

Kao Chemicals Europe is a subsidiary of Kao international group. We are a leading manufacturer in the fields of hygiene, beauty and health, while our chemical business contributes to the development of diverse industries. The Chemical Business offers an array of products including oleo chemicals and derivatives, surfactants, high-performance polymers, and fragrances.

Kao Chemicals Europe is committed to taking a responsible approach to the environment and to health and safety throughout the lifecycle of its products.

HISTORY OF KAO CHEMICALS EUROPE





KAO CHEMICALS EUROPE



- Brazil
- Germany
- Mexico
- Spain

BUSINESS UNITS

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SALES OFFICES

Brazil

• Germany

Mexico

• Spain

- Surfactants for consumers applications
- Fragrance & Aroma Chemicals
- Surfactants for technical applications
- Oleo chemicals
- Imaging Materials
- Inks





BUSINESS UNITS



- 10

- Concentrated color bases
- Solid dispersions (chips)
- Varnishes and additives
- Eco-solvent / Solvent
- Bio based •
- Low Migration •



FRAGRANCES & AROMA CHEMICALS



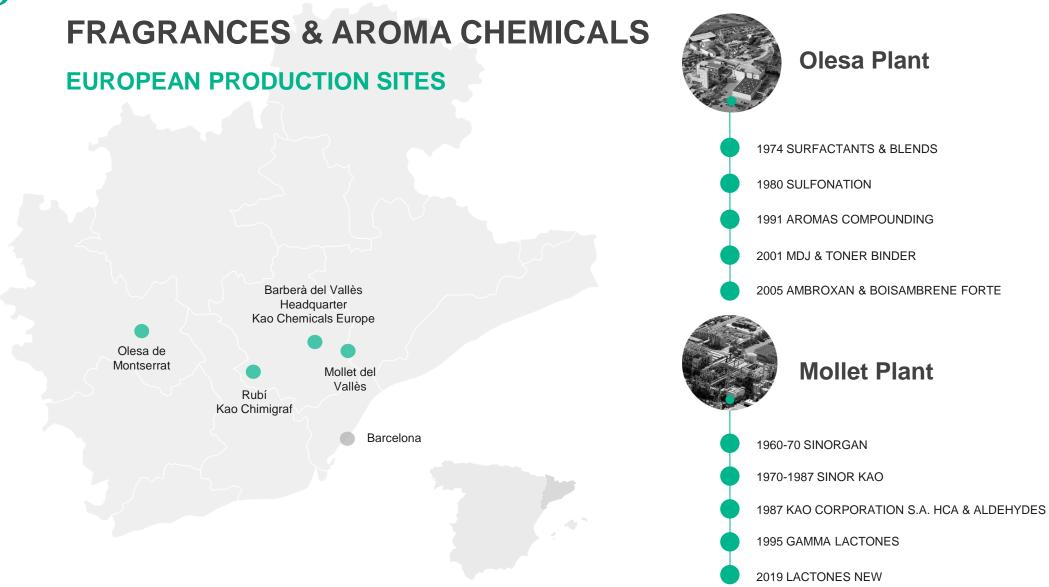
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FRAGRANCES & AROMA CHEMICALS

GLOBAL PRODUCTION SITES | WHERE DO WE CREATE PRODUCTS

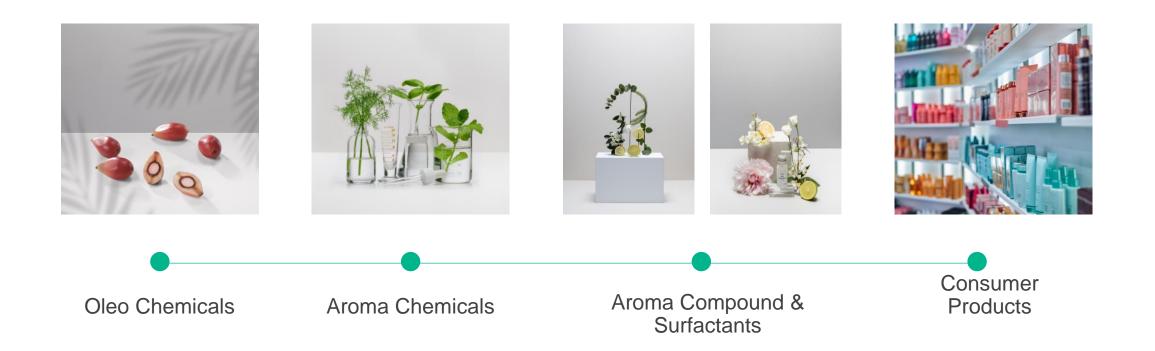






AROMA CHEMICALS

SYNERGIES



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AROMA CHEMICALS PRODUCT RANGE

APPLICATIONS

- Personal Care
- Laundry Care
- Home Care
- Fine Fragrances



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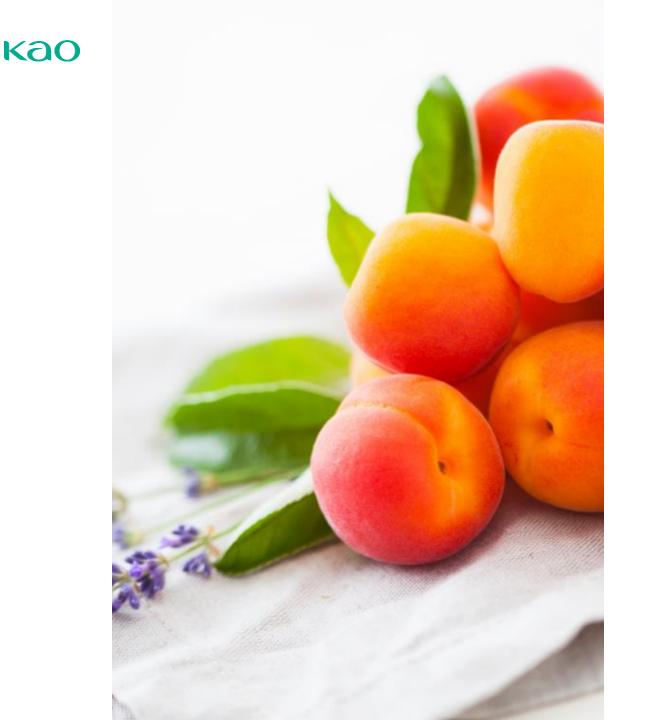


MDJ

MAIN SPECIFICATIONS

- Appearance: Clear to pale yellow liquid
- Odour: Floral, Fresh, Jasmin-like
- Specific Gravity at 20°C: 0.998 1.006
- **Refractive Index at 20°C:** 1.457 1.462
- Purity (by GLC): 96% min.

- **Stability:** Good stability between pH 4 8 at room temperature.
- **Uses:** Various type fragrances
- Legislation: CAS No. 24851-98-7, TSCA Registered, EINECS 246-495-9, CEPA DSL.



UNDECALACTONE

MAIN SPECIFICATIONS

- Appearance: Clear to pale yellow liquid
- Odour: Fruity, Peach, Apple
- Specific Gravity at 20°C: 0.941 0.948
- **Refractive Index at 20°C:** 1.448 1.452
- Purity (by GLC): 98% min.

- Stability: Very good stability in a wide range of pH
- Uses: Various type flavours and fragrances
- Legislation: CAS No. 104-67-6, TSCA Registered, EINECS Registered, CEPA DSL.

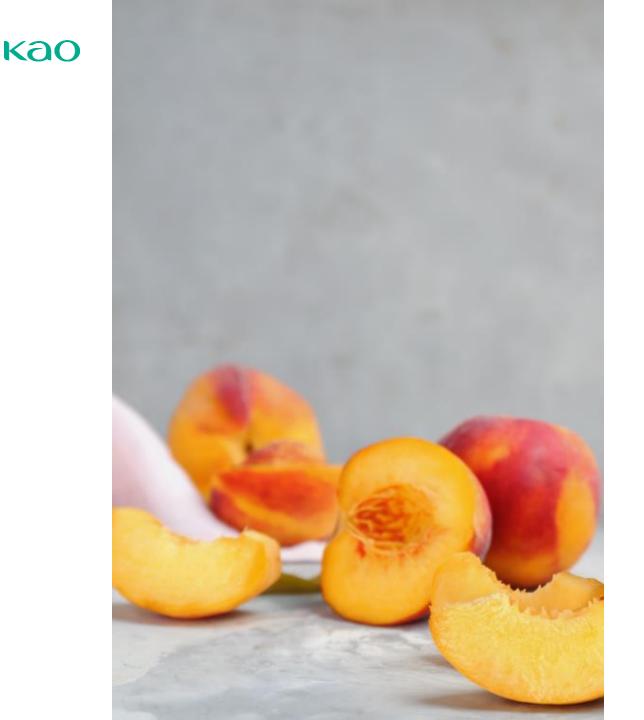


NONALACTONE

MAIN SPECIFICATIONS

- Appearance: Clear to pale yellow liquid
- Odour: Fruity, Creamy, Coconut
- Specific Gravity at 20°C: 0.961 0.970
- **Refractive Index at 20°C:** 1.442 1.450
- Purity (by GLC): 98% min.

- Stability: Very good stability in a wide range of pH
- Uses: Various type flavours and fragrances
- Legislation: CAS No. 104-61-0, TSCA Registered, EINECS Registered, CEPA DSL.



DECALACTONE

MAIN SPECIFICATIONS

- Appearance: Clear to pale yellow liquid
- Odour: Fruity, Creamy, Peach
- Specific Gravity at 20°C: 0.946 0.956
- **Refractive Index at 20°C:** 1.444 1.454
- Purity (by GLC): 98% min.

- Stability: Very good stability in a wide range of pH
- **Uses:** Various type flavours and fragrances
- Legislation: CAS No. 706-14-9, TSCA Registered, EINECS Registered, CEPA DSL.



HEXYL CINNAMIC ALDEHYDE

MAIN SPECIFICATIONS

- Appearance: Yellow liquid
- Odour: Floral, Jasmin, Muguet
- Specific Gravity at 20°C: 0.953 0.963
- **Refractive Index at 20°C:** 1.547 1.553
- Purity (by GLC): 97% min.

- **Stability:** Good stability pH 2 12 at room temperature.
- Uses: Floral type fragrances
- Legislation: CAS No. 101-86-0, TSCA Registered, EINECS Registered, CEPA DSL.







AMBROXAN

MAIN SPECIFICATIONS

- Appearance: White flakes
- Odour: Ambergris, Woody, Warm, Clean, Rich
- Purity (by GLC): 95% min

- Stability: excellent stability in most media
- **Uses:** Various type fragrances
- Legislation: CAS No. 6790-58-5, TSCA Registered, EINECS 229-861-2, CEPA DSL.

AMBROXAN

Odor impression:

Allibergiis, Woody, Wallin, Clean, N	y, Warm, Clean, Rich	Ambergris, Woody,
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Stability:

Excellent stability in most media

Floral

Green

Citrus

Fruity

Woody

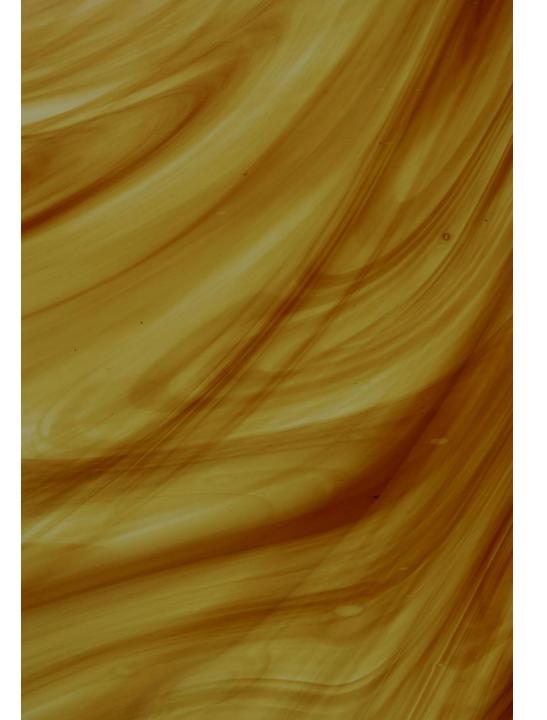
Balsam Musk

Good combination m	aterials	Recommended use of Ambroxan
Together with	You can get	
Me b-na ketone	Natural	for orange type
Poirenate	Berry	
Apple BaseJasmocyclat	EnhanceSweet	with apple note
Gamma undecalactone	Sweet	with lactone
Raspberry ketone	Soft	with berry or cassis note
 Herbavert Pollenal II 	FreshPowdery	with green materials
cis-3 hexenol	 Sweet 	with groot matchaid
 Triplal 	 Natural 	
Vertoriff	 Watery 	
Lifferome	Natural	
 Allyl amyl glycolate 	Natural	
 Allyl cyclohex gly 	 Soft 	
Undecavertol	Natural	
Buccoxime	Sweet	for green floral type
Helional	Sweet	for green noral type
cis-3 hexenyl sali	Sweet	
Jasmin Base	Sweet	
Amber core	Bright	with woody materials
Boisambrene forte	Creamy	
Iso E super	Sweet	
 Timberol 	Sweet	
Cyclohexylsalicylat	Soft	
 Cyclopenta decanolide 	Sweet	
Galaxolide	Sweet	
Habanolide	Soft	
Ethylene brassyrate	Mellow	

The most beautiful amber material for various use

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BOISAMBRENE FORTE

MAIN SPECIFICATIONS

- Appearance: Colourless liquid
- Odour: Woody-amber, Dry, Sweet, Soft, Warm
- Density at 20°C: 0.931 0.935 g/m
- Refractive Index at 20°C: 1.465 1.469
- Purity (by GLC): 95% min.

- Stability: stable in most media except high acid
- **Uses:** Various type fragrances
- Legislation: CAS No. 58567-11-6, TSCA Registered, EINECS 261-332-1, CEPA DSL.

BOISAMBRENE FORTE

Odor impression:

Woody-amber, Dry, Sweet, Soft, Warm

Stability:

Stable in most media except high acid.

Good combination m	aterials	Recommended use of BBF
Together with +	You can get	
Lemon oil	Volumy	for citrus type
Peranat	Volumy	
Damacenone	Volumy	for fruity type
Gamma undecalactone	Creamy	for fraity type
 Vertoriff 	Soft	with green materials
 Lifferome 	Powdery	
 Allyl amyl glycolate 	Sweet	
 Calone 	Soft	for groop too type
Helional	Volumy	for green tea type
Phenyl hexanol	Bouncy	
Koavone	Light	
b-lonone	Soft	with other woody materials
Amber core	Warm	
Benzyl salicylate	Soft	
Cyclohexylsalicylat	Soft	
Coumarine	Soft	
Cyclopentadecanolide	Sweet	
Galaxolide	Sweet	
Habanolide	Soft	
 Ethylene brassyrate 	Soft	
Ambroxan	Creamy	

Versatile and beautiful woody building block

Citrus

Fruity

Green

Floral

Woody

Balsam Musk



HERBAVERT

MAIN SPECIFICATIONS

- Appearance: Colourless liquid
- Odour: Green, Fruity, Herbal, Minty
- Density at 20°C: 0.839 0.843 g/m
- **Refractive Index at 20°C:** 1.433 1.437
- Purity (by GLC): 95% min. (mixture of isomers)

MAIN FEATURES

- Stability: mostly stable except low P.H
- **Uses:** Various type fragrances
- Legislation: CAS No. 67583-77-1, TSCA Registered, EINECS 266-722-5, CEPA DSL.

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HERBAVERT

Odor impression:

Green, Fruity, Herbal, Minty

Stability:

Stable in most media except high acid.

Good combina	tion materials	How to use IROTYL
Together with	You can get	
 Peranat Damacenone Cassis BASE Apple BASE Gama undeca 	 Mellow Flowery Fresh Fresh Fresh 	to give freshness for fruity note for apple, pear type
 Romilat Rose oxide Hexyl acetate Lifferome Allyl cyclohex gly Stemon Buccoxime Calone cis-3 hexenyl sali 	 Mellow Flowery Flowery Fresh Fresh Fresh Fresh Fresh Vegetable 	to give freshness for green note for lavender type
 I-Menthol Muguet BASE 	GrassyFresh	for mint type
TroenanPhenyl hexanol	FloweryTinyflower	to give freshness for muguet type
 o-TBCHA Irotyl Timberol 	FreshFruityHoneysuckle	
Cyclohexylsalicylat Coumarine Vanillin Ambrettolide Ambroxan	 Soft Flowery Flowery Fresh Fresh 	for powdery, oriental type

Very diffusive enhancer of freshness and naturalness

Fruity

Green

Mint

Floral

Woody

Balsam Musk

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AMBER CORE

MAIN SPECIFICATIONS

- Appearance: Clear liquid
- Odour: Soft woody-amber, Transparent, Musky
- Specific Gravity at 20°C: 0.931 0.941
- **Refractive Index at 20°C**: 1.461 1.471
- Purity (by GLC): 98% min.

- **Stability**: Good stability in soap, detergent, shampoo and other media. Non-discolouring.
- **Uses**: Excellenty harmonizes with many materials. It blends with Citrus, Muguet, Oriental, Fougere and Chypre.
- Legislation: CAS No. 139504-68-0, TSCA Registered, ELINCS 412-300-2, CEPA DSL.

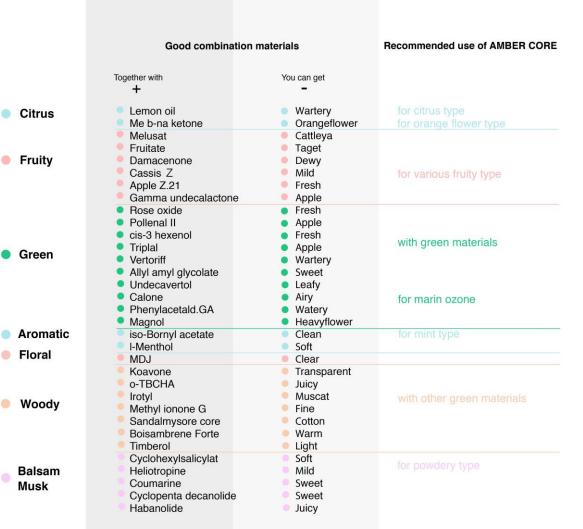
AMBER CORE

Odor impression:

Soft woody-amber, Transparent, Musky

Stability:

Stable in most media.



Transparent woody note good for light order type

Citrus

Fruity

Green

Floral

Woody

Balsam

Musk

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FRUITATE

MAIN SPECIFICATIONS

- Appearance: Clear liquid
- Odour: Fruity, Banana, Apple, Floral, Rose
- Specific Gravity at 20°C: 1.034 1,051
- **Refractive Index at 20°C:** 1.482 1.488
- Purity (by GLC): 98% min.

- **Stability:** Very good all round stability and nondiscolouring. Specially very stable in highly alkaline and acid.
- **Uses:** Harmonizes wonderfully with Jasmin, Tuberose, Lavender, Bergamot and Citrus.
- Legislation: CAS No. 80657-64-3/80623-07-0, TSCA Registered, ELINCS 407-520-0, CEPA DSL.

FRUITATE

Odor impression:

Fruity, Banana, Apple, Floral, Rose

Stability:

Stable in most media.

Good combination materials		Recommended use of FRUITAT
Together with +	You can get –	
Orange oil	Nable or.	for orange type
Poirenate	Juicy	with Poirenate
Floramat	Orangepeel	with Floramat
Damacenone	Petal	
Cassis Base	Berry	with Damascenone
Apple Base	Peach	
Jasmocyclat	Banana	
Gamma undecalactone	Juicy	for various fruity type
Raspberry ketone	Raspberry	
 Rose oxide Pollenal II 	Mild	
 cis-3 hexenol 	 Citrusy Berry 	
 Triplal 	Muscat	
 Lifferome 	 Natural 	with green materials
 Allyl cyclohex gly 	 Juicy 	
 Buccoxime 	 Tropical 	for an and the set to make
Helional	Melon	for green floral type
cis-3 hexenyl sali	Fruity	
Eucaryptol	Mellow	
Rose abs Base	Redrose	for rose type
Koavone	👝 Grape	
o-TBCHA	Apple	
Sandalmysore core	Orange	with woody materials
Amber core	Taget	
Iso E super	Watery	
Cyclohexylsalicylat	Marshmallow	
 Cyclopenta decanolide Ambrettolide 	JuicyApple	

Very stable fruity floral accent material

Citrus

Fruity

Green

Aromatic
 Floral

Woody

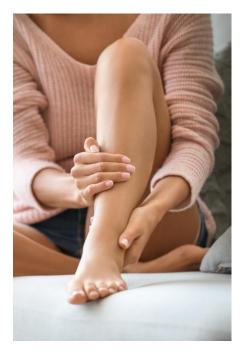
Balsam Musk

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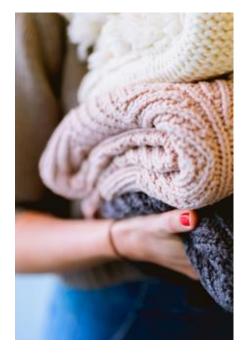
FRAGRANCES & AROMA CHEMICALS

IDEAL PARTNER FOR:



PERSONAL CARE







HOME CARE

FABRIC CARE

FINE FRAGRANCES



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