




# Covalight® OS AS

- Alkyl Silane surface treated mineral pigments dispersions
- Dispersions in a D5-alternative medium: isononyl isononanoate
- Fluid paste form
- No preservative system
- Suitable for W/O and W/Si emulsions
- Especially adapted for fluid foundations with silky, smoot and non-sticky sensory effects.

Full Shade	Reduced Shade	Product name	Colour Index Pigment or Generic name	% pigment	Color regulations	
					Europe	USA
		<b>COVALIGHT® YELLOW OS 182 AS</b> Based on Unipure® Yellow LC182	CI 77492 (and) Triethoxycaprylylsilane (and) Isononyl Isononanoate (and) Ethylene/Propylene/Styrene Copolymer (and) Sorbitan Oleate	45 - 55	PT/BP 1	MEA
		<b>COVALIGHT® RED OS 381 AS</b> Based on Unipure® Red LC381	CI 77491 (and) CI 77499 (and) Triethoxycaprylylsilane (and) Isononyl Isononanoate (and) Ethylene/Propylene/Styrene Copolymer (and) Sorbitan Oleate	45 - 55	PT/BP 1	MEA
		<b>COVALIGHT® BLACK OS 989 AS</b> Based on Unipure® Black LC989	CI 77499 (and) Triethoxycaprylylsilane (and) Isononyl Isononanoate (and) Ethylene/Propylene/Styrene Copolymer (and) Sorbitan Oleate	45 - 55	PT/BP 1	MEA
		<b>COVALIGHT® WHITE OS 987 AS</b> Based on Unipure® White LC981	CI 77891 (and) Triethoxycaprylylsilane (and) Isononyl Isononanoate (and) Ethylene/Propylene/Styrene Copolymer (and) Sorbitan Oleate	50 - 60	PT/BP 1	MEA



# Covalim

- Mineral pigments pre-dispersed in mineral oil
- Fluid paste form
- Suitable for all anhydrous cosmetic products (lipsticks, depilatory waxes,...)

Full Shade	Reduced Shade	Product name	Colour Index Pigment or Generic name	% pigment	Color regulations	
					Europe	USA
		BLANC COVALIM W9747 Based on Titanium Dioxide	CI 77891(and)Paraffinum Liquidum	45-55	PT/BP 1	MEA

# Isolast®

- Mineral and organic pigments pre-dispersed in isododecane
- Based on high purity Unipure LC pigments
- Fluid paste form
- Suitable for waterproof mascara or eyeliner, and hair products

Full Shade	Reduced Shade	Product name	Colour Index Pigment or Generic name	% pigment	Color regulations	
					Europe	USA
		ISOLAST® BLACK OS 902 Based on Unipure® Black LC902	CI 77266 (and) Isododecane (and) Polyglyceryl-3 Diisostearate (and) Quaternium-90 Bentonite (and) Propylene Carbonate (and) Silica Dimethyl Silylate	10 - 20	PT/BP 1	B

Europe/China

USA

Product Type / Body Part (PT/BP)

PT/BP 1 : allowed in all cosmetic products

PT/BP 2 : allowed in all cosmetic products except those intended to be applied in the vicinity of the eyes, in particular eye make-up and eye make-up remover.

PT/BP 3 : allowed exclusively in cosmetic products intended not to come into contact with the mucous membranes.

PT/BP 4 : allowed exclusively in cosmetic products intended to come into contact only briefly with the skin.

MEA : for coloring cosmetics generally, including those intended for use in the area of the eye.

M : for coloring cosmetics generally.

EXT : for coloring externally applied cosmetics.

EXT/EA : for coloring externally applied cosmetics, including cosmetics intended for use in the area of the eye.

EXT\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.

EXT\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (5% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.

EXT\*\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products). Not permitted in mouthwashes, dentifrices or other oral products

B : for coloring the following cosmetics only : eyeliner, brush-on-brow, eye shadow, mascara, lipstick, blushers and rouge, make-up and foundation, and nail enamel.

T : for use only in toothpastes at not more than 0.1 %

# Covachip® ET

- Mineral and organic pigments pre-dispersed in a plastified ethylcellulose system
- Chips form
- Easily dispersible in resin bases
- Suitable for nail varnishes.

Full Shade	Reduced Shade	Product name	Colour Index Pigment or Generic name	% pigment	Color regulations	
					Europe	USA
		JAUNE COVACHIP® W 1701 ET Based on Yellow 5 Lake	CI 19140 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	43 - 47	PT/BP 1	MEA
		ORANGE COVACHIP® W 2702 ET Based on Yellow 6 Lake	CI 15985 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	32 - 36	PT/BP 1	M
		ROUGE COVACHIP® W 3714 ET Based on Red 6 Lake	CI 15850 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	38 - 42	PT/BP 1	M
		RUBIS COVACHIP® W 4700 ET Based on Red 34	CI 15880 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	38 - 42	PT/BP 1	EXT
		CERISE COVACHIP® W 4702 ET Based on Permanent Red 2B	CI 15865 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	43 - 47	PT/BP 1	—
		RUBIS COVACHIP® W 4705 ET Based on Red 7	CI 15850 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	38 - 42	PT/BP 1	M
		BLEU COVACHIP® W 6709 ET Based on Ferric Ammonium Ferrocyanide	CI 77510 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	38 - 42	PT/BP 1	EXT/EA
		BRUN COVACHIP® W 8700 ET Based on Iron Oxides	CI 77491 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	61 - 65	PT/BP 1	MEA
		NOIR COVACHIP® W 9702 ET Based on Black 2	CI 77266 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	23 - 27	PT/BP 1	B
		BLANC COVACHIP® W 9705 ET Based on Titanium Dioxide	CI 77891 (and) Acetyl Tributyl Citrate (and) Ethylcellulose	60 - 64	PT/BP 1	MEA

DISPERSIONS

Europe/China

USA

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 PT/BP 2 : allowed in all cosmetic products except those intended to be applied in the vicinity of the eyes, in particular eye make-up and eye make-up remover.  
 PT/BP 3 : allowed exclusively in cosmetic products intended not to come into contact with the mucous membranes.  
 PT/BP 4 : allowed exclusively in cosmetic products intended to come into contact only briefly with the skin.

MEA : for coloring cosmetics generally, including those intended for use in the area of the eye.  
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 EXT : for coloring externally applied cosmetics.  
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 EXT\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.  
 EXT\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (5% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.  
 EXT\*\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products). Not permitted in mouthwashes, dentifrices or other oral products.  
 B : for coloring the following cosmetics only : eyeliner, brush-on-brow, eye shadow, mascara, lipstick, blushers and rouge, make-up and foundation, and nail enamel.  
 T : for use only in toothpastes at not more than 0.1 %



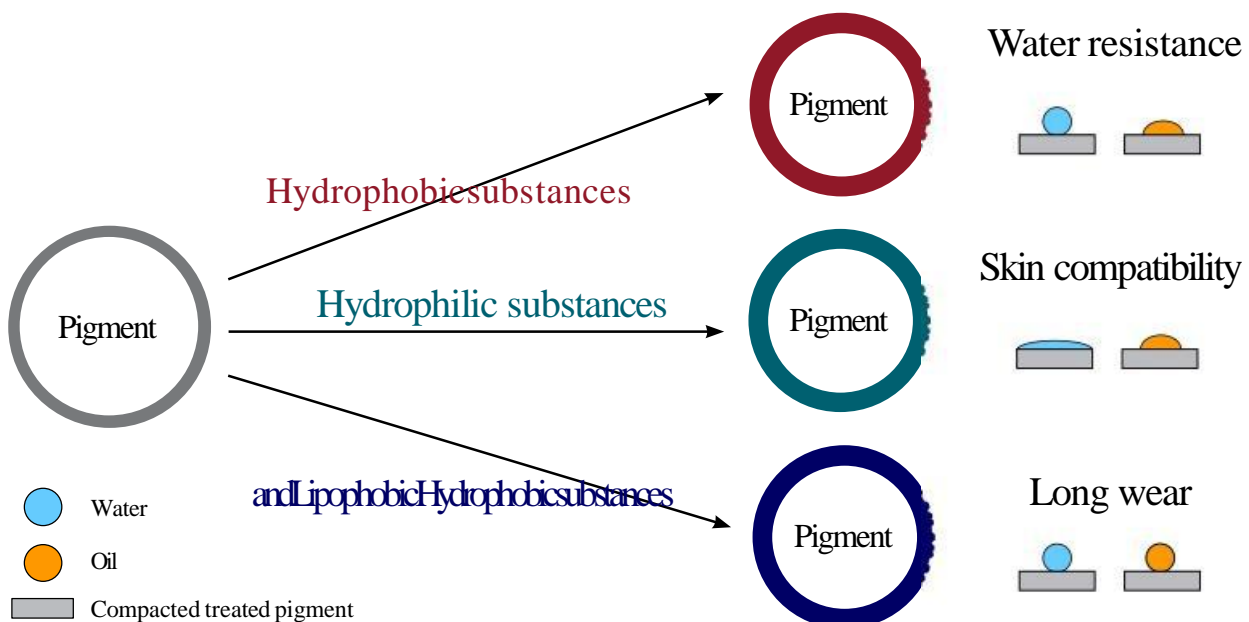


# Surface treatment Technology



Selection of the proper surface treatment is critical in color cosmetic formulations. Sensient Cosmetic Technologies surface treatments enable ease of formulation with improved stability while improving pigment performance, wearability and feel. Sensient surface treatments are applied through a proprietary particle manipulation technology ensuring the highest degree of particle coverage and optimized consistency.

- Improved emulsion stability
- Allow to make higher pigment load formulations
- Improve long-lasting of cosmetic products
- Enable easy dispersibility with no grinding step required
- Reduce variation of color between mass an after application
- Express different skin feel





# Surface treatment range

A wide range of treatments produces a variety of choices in formulating color cosmetics with enhanced product attributes.

Surface Treatment lines	INCI	Main Properties	
AS Alkyl Silane	Triethoxycaprylylsilane	Excellent hydrophobicity Good dispersibility in oils and silicones Improved adhesion & wear resistance Allows fluid and bright high solid dispersion	
BA Botanical Lipid Avocado	Persea Gratissima (Avocado) Oil (and) Hydrogenated Vegetable Oil (and) Alpha-Tocopherol	Excellent hydrophobicity Allows high pigment load in fluid W/O emulsions keeping lightness feeling on the skin Compatible with hot process Soft touch and good pressability in powder	
ADT-C Advanced Dispersion Technology	Isopropyl Titanium Triisostearate (and) Bis- PEG-15 Dimethicone / IPDI Copolymer (and) PEG-2 Soyamine	Excellent hydrophobicity Allows to make any high pigment load make-up formulations easily and without in compromise on «cosmeticity» Shade fidelity on the skin Increased affinity and adhesion to the skin and the hair	
HLC Hydrogenated Lecithin	Hydrogenated Lecithin	Excellent hydrophobicity Natural Excellent stability in emulsions Easy dispersibility in oils - No grinding Smooth and lubricious feel	
GCA Glutamate Cystine Arginine	Sodium Cocoyl Glutamate (and) Cystine (and) Lauric Acid (and) Arginine	Natural Triple amino-acid treatment. Slightly hydrophobic Excellent affinity for keratin & skin Easy-dispersible, grinding-free	
NL N-Lauroyl L-Lysine	Lauroyl Lysine	Excellent hydrophobicity Good dispersibility in oils Lower oil absorption compared to untreated powder Provides a creamy and soft skin feel	
NFW ROSE CF Natural Flower Wax	Rosa Centifolia Flower Extract (and) Rosa Damascena Flower Wax (and) Cera Alba	Good hydrophobicity ; water resistance Soft and creamy skin feel Dry greasy touch Allows to make binder-free compact powders	
AQ Dimethicone Copolyol	PEG-12 Dimethicone	Hydrophilic Easier dispersibility in water based system Time reduction of process Long-lasting water based make-up	
PHY Phytic Acid	Phytic Acid (and) Sodium Hydroxide	Natural origin Highly hydrophilic properties Easy dispersible without grinding Higher pigments load, enhanced stability in O/W emulsions Quick full color strength and easy shade adjustment	
SGP Sodium Glycerophosphate	Sodium Glycerophosphate	Natural, hydrophilic Easy-dispersible, grinding-free Moisturizing & water-retention	
FHP Fluoro High Purity	Ammonium C6-16 Perfluoroalkylethyl Phosphate	Both excellent hydrophobicity and lipophobic properties Easy dispersibility in silicone oils Suitable for long lasting make up PFOA-free & PFOS-free*	
FSP FluoroSilane & FluoroPolymer	Perfluorooctyl Triethoxysilane (and) Polyperfluoromethylisopropyl Ether	Very good hydrophobicity & good lipophobicity Suitable for long lasting make-up, especially powders Soft touch on powders PFOA-free & PFOS-free*	

\* [PFOA] & [PFOS] : below the detection limit based on the Sensient's method 10-224.



SURFACE  
TREATMENTS

# Hydrophobic surface treatments

# AS

## Alkyl Silane

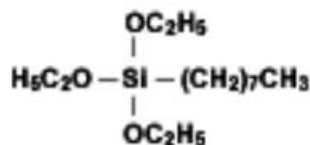
### Composition

INCI name : Triethoxycaprylylsilane

CAS No. : 2943-75-1

EINECS No. : 220-941-2

Approved for EU, USA, Japan and China.



### Key Features

- Shear resistant coating
- Chemically bound

### Key Properties

- 4Excellent hydrophobicity
- 4Good dispersibility in oils and silicones (at over 50% solids)
- 4Allows fluid and bright high solid dispersion
- 4Improved adhesion & wear resistance



### Main Applications

1. W/O and W/Si emulsions
2. Powders : Pressed or loose powders & Two-way cake
3. Mousse
4. Mascaras
5. Long lasting lipstick / lipgloss
6. Hair make-up
7. Eyebrow make-up
8. Cream in powder form

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

## Product Line

### Mineral pigments

UNIPURE YELLOW LC 182 AS  
 UNIPURE YELLOW LC 182 AS-EM  
 UNIPURE RED LC 381 AS  
 UNIPURE RED LC 381 AS-EM  
 UNIPURE RED LC 386 AS-EM  
 UNIPURE VIOLET LC 585 AS  
 UNIPURE PINK LC 589 AS  
 UNIPURE BLUE LC 680 AS  
 UNIPURE GREEN LC 788 AS  
 UNIPURE GREEN LC 790 CF AS  
 UNIPURE BLACK LC 989 AS  
 UNIPURE BLACK LC 989 AS-EM  
 UNIPURE BLACK LC 998 AS  
 UNIPURE TRIPLE BLACK LC990 AS-EM  
 UNIPURE WHITE LC 987 AS-EM  
 TITANIUM DIOXIDE AS R3435  
 TITANIUM DIOXIDE AS R3442

Blends of AS treated mineral pigments available under request: ready-to-use shades for hair and eyebrow applications

### Organic pigments

UNIPURE YELLOW LC 125 AS  
 UNIPURE RED LC 304 AS  
 UNIPURE RED LC 3075 AS  
 UNIPURE BLUE LC 621 AS

### Fillers

MICA 8 AS R0433  
 SERICITE AS R0434  
 TALC AS R0435

### Pearls

COVAPEARL® RICH GOLD 230 AS  
 COVAPEARL® DORE GOLD 232 AS  
 COVAPEARL® LIGHT DORE 235 AS  
 COVAPEARL® ANTIQUE 236 AS  
 COVAPEARL® SPARKLING GOLD 238 AS  
 COVAPEARL® ANTIQUE SILVER 239 AS  
 COVAPEARL® FIRE RED 333 AS  
 COVAPEARL® RED 339 AS  
 COVAPEARL® PINK 433 AS  
 COVAPEARL® PURE CARMINE 438 AS  
 COVAPEARL® BLUE 635 AS  
 COVAPEARL® DARK BLUE 637 AS  
 COVAPEARL® OCEAN GREEN 736 AS  
 COVAPEARL® GREEN 737 AS  
 COVAPEARL® LIGHT BROWN 830 AS  
 COVAPEARL® BROWN 838 AS  
 COVAPEARL® SATIN 931 AS  
 COVAPEARL® BRIGHT 933 AS  
 COVAPEARL® SPARKLING SILVER 937 AS  
 COVAPEARL® SILVER 939 AS

### Synthetic pearls

COVAPEARL® STAR GOLD 2302 AS  
 COVAPEARL® STAR LIGHT DORE 2335 AS  
 COVAPEARL® STAR DORE 2375 AS  
 COVAPEARL® STAR COPPER 3332 AS  
 COVAPEARL® STAR LIGHT RED 3339 AS  
 COVAPEARL® STAR RED 3379 AS  
 COVAPEARL® STAR LIGHT VIOLET 5331 AS  
 COVAPEARL® STAR VIOLET 5371 AS  
 COVAPEARL® STAR LIGHT BLUE 6335 AS  
 COVAPEARL® STAR BLUE 6375 AS  
 COVAPEARL® STAR LIGHT GREEN 7337 AS  
 COVAPEARL® STAR GREEN 7377 AS  
 COVAPEARL® STAR BRONZE 8302 AS  
 COVAPEARL® STAR BRIGHT 9332 AS  
 COVAPEARL® STAR SILVER 9372 AS

### Cosmetic ingredients

MATLAKE OPA AS  
 OXYDE DE ZINC MICROPUR AS



# BA

## Botanical Lipid Avocado

### Composition

INCI name : Persea Gratissima (Avocado) Oil (and) Hydrogenated Vegetable Oil (and) Alpha-Tocopherol  
CAS No. : 8024-32-6, 68334-28-1  
EINECS No. : 232-428-0, 269-820-6  
Approved for EU, USA, Japan and China.

### Key Features

- Natural surface treatment

### Key Properties

- 4Excellent hydrophobicity
- 4Allows high pigment load in fluid W/O emulsions keeping lightness feeling on the skin
- 4Compatible with hot process
- 4Soft touch and good pressability in powder



### Main Applications

1. W/O and W/Si emulsions
2. Suitable for stick format
3. Pressed and loose powders

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.



## Product Line

### Mineral pigments

- NEW UNIPURE WHITE LC987BA
- NEW UNIPURE YELLOW LC182BA
- NEW UNIPURE RED LC381 BA
- NEW UNIPURE BLACK LC989 BA



# ADT-C

## Advanced Dispersion Technology

### Composition

INCI name : Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone / IPDI Copolymer (and) PEG-2 Soyamine  
CAS No. : 61417-49-0, 222416-17-3, 61791-24-0, 4098-71-9  
EINECS No. : 262-774-8, 223-861-6, ---  
Approved for EU, USA, China, Japan.

### Key Properties

- 4Excellent hydrophobicity
- 4Improved wettability of pigments in polar oils
- 4Facilitates formulation of fluid foundation with high pigment load
- 4Allows to make high pigment load lipstick up to 30%
- 4Good affinity and adhesion to skin and eyelashes



### Main Applications

1. W/O and W/Si emulsions
2. Intense shades in lip and eye make-up
3. Powders : Pressed or loose powders & Two-way cake

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.



## Product Line

### Mineral pigments

UNIPURE YELLOW LC182 ADT-C  
UNIPURE BLACK LC989 ADT-C  
UNIPURE WHITE LC987 ADT-C  
UNIPURE RED LC381 ADT-C  
NEW UNIPURE BLUE LC680 ADT-C

### Organic pigments

UNIPURE RED LC3075 ADT-C  
NEW UNIPURE RED LC300 ADT-C  
NEW UNIPURE RED LC304 ADT-C  
NEW UNIPURE RED LC324 ADT-C

### Lakes

NEW UNIPURE YELLOW LC125 ADT-C  
NEW UNIPURE ORANGE LC226 ADT-C  
NEW UNIPURE BLUE LC621 ADT-C

### Fillers

MICA ADT-C  
TALC ADT-C



# HLC

## Hydrogenated Lecithin

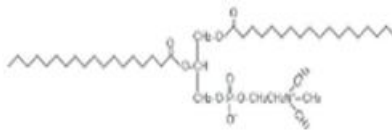
### Composition

INCI : Hydrogenated Lecithin

CAS No. : 92128-87-5

EINECS No. : 295-786-7

Approved for EU, USA, Japan and China.



### Key Features

- Shear resistant coating
- Chemically deposited
- Natural surface treatment

### Key Properties

- 4 Good hydrophobicity
- 4 Easy dispersibility in oils – No grinding or milling
- 4 Easy shade adjustment
- 4 Excellent affinity for the skin due to its amino acid nature
- 4 Imparts a smooth, lubricious and creamiest feel
- 4 Imparts excellent stability in emulsion formulations



### Main Applications

1. W/O & W/SI emulsions
2. Powders : Pressed or loose powders
3. Two-way cake
4. Anhydrous products
5. Skin care & Natural concept.

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

## Product Line

### Mineral pigments

UNIPURE RED LC 381 HLC  
 UNIPURE BLACK LC 989 HLC  
 UNIPURE WHITE LC 981 HLC  
 UNIPURE YELLOW LC 182 HLC

### Fillers

SERICITE HLC  
 TALC HLC  
 SUBMICA® FL HLC

### Pearls

COVAPEARL® DORE GOLD 232 HLC  
 COVAPEARL® LIGHT DORE 235 HLC  
 COVAPEARL® SPARKLING GOLD 238 HLC  
 COVAPEARL® SILVER ANTIQUE 239 HLC  
 COVAPEARL® FIRE RED 333 HLC  
 COVAPEARL® RED 339 HLC  
 COVAPEARL® PINK 433 HLC  
 COVAPEARL® BROWN 838 HLC  
 COVAPEARL® SATIN 931 HLC  
 COVAPEARL® BRIGHT 933 HLC  
 COVAPEARL® SPARKLING SILVER 937 HLC  
 COVAPEARL® SILVER 939 HLC





# GCA

## Glutamate Cystine Arginine

### Composition

INCI name : Sodium Cocoyl Glutamate (and) Cystine (and) Lauric Acid (and) Arginine

CAS No. : 68187-32-6 / 56-89-3 / 42492-22-8

EINECS No. : 269-087-2 / 200-296-3 / 255-851-2

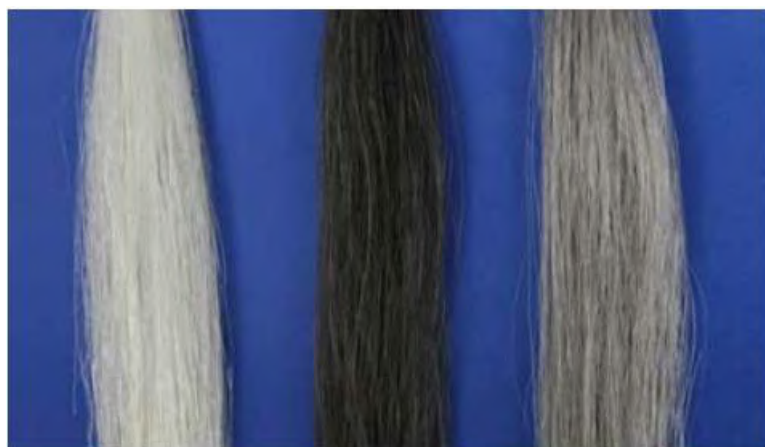
Approved for EU, USA, Japan and China.

### Key Features

- Revolutionary concept of natural hair coloring formulation
- Optimized balance of triple amino-acid treatment to bring superior affinity to keratin with long lasting result compared to non treated pigment

### Key Properties

- 4Easy dispersible in oil – Milling free solution
- 4Semi-permanent hair coloring application
- 4Make up application
- 4Patented technology



REFERENCE YAK HAIR      3% UNIPURE BLACK LC990 GCA SUN APPLICATION TIME CONDITIONER FORMULA T=0      3% UNIPURE BLACK LC990 GCA SUN APPLICATION TIME CONDITIONER FORMULA T=after 3 shampoos

### Main Applications

1. Hair Color
2. Make-up

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

## Product Line

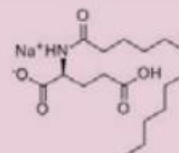
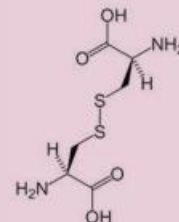
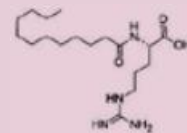
### Mineral pigments

UNIPURE YELLOW LC 182 GCA

UNIPURE RED LC 381 GCA

UNIPURE TRIPLE BLACK LC 990 GCA

UNIPURE WHITE LC 987 GCA



# NLL

## N-Lauroyl L-Lysine

### Composition

INCI name: Lauroyl Lysine

CAS No. : 52315-75-0

EINECS No. : 257-843-4

Approved for EU, USA, Japan and China.

### Key Features

- Shear resistant coating
- Mechanically deposited
- Natural surface treatment

### Key Properties

4Excellent hydrophobicity

4Good dispersibility in oils

4Lower oil absorption compared to untreated powder

4Provides a creamy and soft skin feel



### Main Applications

1. Powders : Pressed or loose powders & Two-way cake
2. Face and eyes make-up

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

## Product Line

### Fillers

SERICITE M12 NLL

TALC L12 NLL



SURFACE

# NFW Rose CF

## Natural Rose Flower Wax

Candelilla-Free grade

### Composition

INCI : Rosa Centifolia Flower Extract (and) Rosa Damascena Flower Wax (and) Cera Alba

CAS No. : 84604-1206, 90106-38-0, 8006-44-4, 8006-40-4

EINECS No. : 283-289-8, 290-260-3, 232-383-7, 232-347-0

Approved for EU, USA, Japan and China.

### Key Features

- Shear resistant coating
- Mechanically deposited
- Natural surface treatment

### Key Properties

- 4 Good hydrophobicity
- 4 Good dispersibility in oil phase
- 4 Lower oil absorption
- 4 Water resistance
- 4 Soft and creamy skin feel
- 4 Allows to make binder-free compact powders



### Main Applications

1. Natural powders
2. Natural anhydrous products
3. W/O emulsions

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.



## Product Line

### Mineral pigments

UNIPURE YELLOW LC182 NFW R CF

UNIPURE RED LC381 NFW R CF

UNIPURE BLACK LC989 NFW R CF

UNIPURE WHITE LC981 NFW R CF







SURFACE  
TREATMENTS

# Hydrophilic surface treatments

# AQ

## Dimethicone Copolyol

### Composition

INCI : PEG-12 Dimethicone  
 CAS No. : 68937-54-2  
 EINECS No. : Polymer  
 Approved for EU, USA, Japan and China.

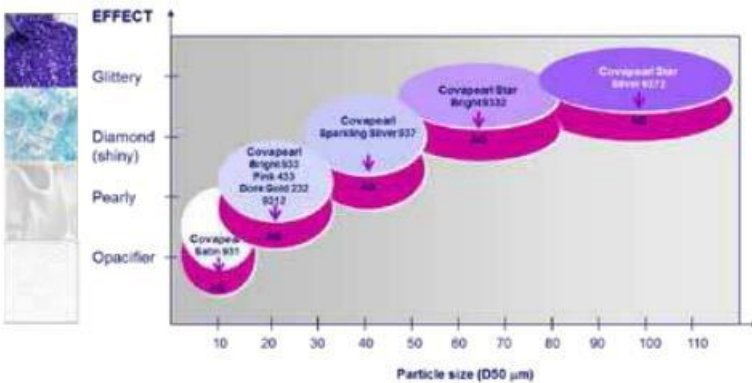
### Key Features

- Shear resistant coating
- Chemically bound

### Key Properties

- 4Easier introduction in water based system
- 4Excellent dispersibility / no agglomeration - low stirring time required
- 4Lower water absorption - allow higher pearl content without viscosity increase
- 4Highly compatible with anionic thickeners and surfactants. For aqueous bases & O/W emulsions
- 4Reduction of Glycol distearate and carbomer
- 4Reduction of time of process
- 4Improved stability

### Sensient's solution to increase pearly effect



### Main Applications

1. For skin care
  - Provides optical effect to skin care without glittering: more natural illuminating effect
2. For make-up
  - Enhances pearly finish
  - Better deposition on skin
  - Long lasting: Better resistance to shear
3. For hair care
  - New generation of textures from pearlized to glittering
  - No negative effect of EGDS used at 5%, bad hair feel
  - Use at only 0,1%

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.



## Product Line

### Pearls

- COVAPEARL® ANT. SILVER 239 AQ
- COVAPEARL® BLUE 635 AQ
- COVAPEARL® BRIGHT 933 AQ
- COVAPEARL® BROWN 838 AQ
- COVAPEARL® DORE GOLD 232 AQ
- COVAPEARL® LIGHT DORE 235 AQ
- COVAPEARL® PINK 433 AQ
- COVAPEARL® SATIN 931 AQ
- COVAPEARL® SILVER 939 AQ
- COVAPEARL® SPARK SILVER 937 AQ
- COVAPEARL® STAR BRIGHT 9332 AQ
- COVAPEARL® STAR GOLD 2302 AQ
- COVAPEARL® MINI STAR SIL. 9312AQ
- COVAPEARL® MINI STAR PURPLE AQ



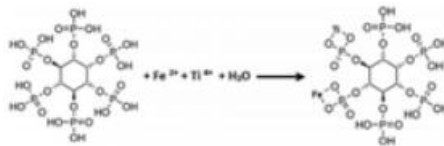


# PHY

## Phytic Acid

### Composition

INCI : Phytic Acid (and) Sodium Hydroxide  
 CAS No. : 83-86-3, 1310-73-2  
 EINECS No. : 201-506-6, 215-185-5  
 Approved for EU, USA, Japan & China.



### Key Features

- Natural surface treatment
- Patented technology
- Formation of chelate compounds

### Key Properties

- 4 Super-hydrophilic
- 4 Easy dispersible, no grinding required
- 4 Allows higher pigments load with enhanced stability in O/W emulsions, and keeping fluid formulation
- 4 Provides a fast and full color strength
- 4 Easy shade adjustment



### Main Applications

1. O/W emulsions and Water based gels
2. Foundation
3. Mascara
4. Hair make-up

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

## Product Line

### Mineral pigments

- UNIPURE YELLOW LC 188 PHY
- UNIPURE RED LC 388 PHY
- UNIPURE BLACK LC 998 PHY
- UNIPURE WHITE LC 987 PHY
- UNIPURE WHITE LC 985 PHY





# SGP

## Sodium Glycerophosphate

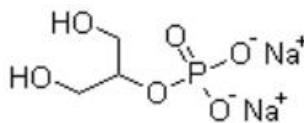
### Composition

INCI : Sodium glycerophosphate

CAS No. : 1334-74-3

EINECS No. : 1,2,3-Propanetriol mono(dihydrogen phosphate) disodium salt

Approved for EU, USA, Japan & China.



### Key Features

- Natural surface treatment
- Patented technology

### Key Properties

- 4 Easy dispersibility - Milling free
- 4 Easy shade adjustment
- 4 Hydrophilic properties – Higher affinity for the water phase
- 4 Enhanced stability in water gels or O/W emulsions
- 4 Moisturizing – Water retention

Non treated red iron oxide



Unipure Red LC 381 SGP

### Main Applications

1. O/W emulsions
2. Water based gels
3. Make-up (BB creams...)
4. Skin care

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

## Product Line

### Mineral pigments

UNIPURE YELLOW LC 182 SGP

UNIPURE RED LC 381 SGP

UNIPURE BLACK LC 989 SGP

UNIPURE WHITE LC 981 SGP





# Hydrophobic & Lipophobic surface treatments

## FluoroSilane & FluoroPolymer

### Composition

INCI name : Perfluorooctyl Triethoxysilane (and) Polyperfluoromethylisopropyl Ether  
 CAS No. : 51851-37-7, 69991-67-9  
 EINECS No. : 257-473-3, Polymer  
 Approved for EU, USA, Japan and China.

### Key Features

- Shear resistant coating
- PFOA-free & PFOS-free\* : meet the goals of the U.S. Environmental Protection Agency 2010/15 PFOA Stewardship program.

### Key Properties

- 4Very good hydrophobic and good lipophobic properties
- 4Suitable for long-lasting make-up with enhanced resistance to perspiration and sebum
- 4Soft touch on powders
- 4Good compressibility and resistance to fall
- 4Compatible with various oily media



### Main Applications

1. Powders
2. W/O and W/Si emulsions
3. Anhydrous products

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

\* [PFOA] & [PFOS] : below the detection limit based on the Sensient's method 10-224.



## Product Line

### Mineral pigments

UNIPURE YELLOW LC 188 FSP  
 UNIPURE RED LC 388 FSP  
 UNIPURE BLACK LC 988 FSP  
 UNIPURE WHITE LC 986 FSP

### Fillers

SERICITE M12 FSP  
 TALC L12 FSP





# FHP

## Fluoro High Purity

### Composition

INCI name : Ammonium C6-16 Perfluoroalkylethyl Phosphate

CAS No. : 65530-71-4

EINECS No. : Polymer

Approved for EU, USA and Japan.

### Key Features

- Shear resistant coating
- Chemically deposited
- PFOA-free & PFOS-free\* : meet the goals of the U.S. Environmental Protection Agency 2010/15 PFOA Stewardship program.

### Key Properties

- 4Excellent hydrophobic and lipophobic properties
- 4Good resistance to acid and alkali conditions
- 4Soft feeling
- 4Easy dispersibility in silicone oils
- 4Suitable for long lasting make up resilient to perspiration and sebum



### Main Applications

1. W/O and W/Si emulsions
2. Powders : Pressed or loose powders & Two-way cake
3. Long lasting lipsticks
4. Anhydrous products
5. Cream in powder form.

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

\* [PFOA] & [PFOS] : below the detection limit based on the Sensient's method 10-224.



## Product Line

### Mineral pigments

UNIPURE YELLOW LC 188 FHP  
UNIPURE RED LC 388 FHP  
UNIPURE BLACK LC 988 FHP  
UNIPURE WHITE LC 981 FHP  
UNIPURE WHITE LC 987 FHP

### Fillers

MICA 8 FHP  
SERICITE FHP  
TALC FHP

### Organic pigments

UNIPURE RED LC 302 FHP

### Cosmetic ingredients

PWFHP  
ALUMINA FHP/EM



# Availability

Lines	As	BA	ADT-C	HLC
<b>Mineral pigments</b>				
CI 77491 (Iron oxides)	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>
CI 77492 (Iron oxides)	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>
CI 77499 (Iron oxides)	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>
CI 77891 (TiO <sub>2</sub> anatase)				<b>a</b>
CI 77891 (TiO <sub>2</sub> rutile)	<b>a</b>	<b>a</b>	<b>a</b>	
CI 77007 (Ultramarines)	<b>a</b>		<b>a</b>	
CI 77288 (Chromium oxide)	<b>a</b>			
CI 77289 (Chromium hydroxide)	<b>a</b>			
<b>Fillers</b>				
Mica	<b>a</b>		<b>a</b>	
Sericite	<b>a</b>			<b>a</b>
Talc	<b>a</b>		<b>a</b>	<b>a</b>
<b>Pearls</b>				
Natural pearls	<b>a</b>			<b>a</b>
Synthetic pearls	<b>a</b>			
<b>Organic pigments</b>				
CI 15850 (Red 6 Lake)	<b>a</b>			
CI 15850 (Red 7 lake)	<b>a</b>		<b>a</b>	
CI 19140 (Yellow 5 lake)	<b>a</b>		<b>a</b>	
CI 42090 (BLUE 1 LAKE)	<b>a</b>		<b>a</b>	
CI 73360			<b>a</b>	
CI 16035			<b>a</b>	
CI 45410			<b>a</b>	
CI 15985			<b>a</b>	







# Cosmetic Composites



Composites are incredible sensorial multifunctional ingredients. From color to texture with specific optical effects, a large range of innovative formula can be developed by formulators.

Surface treated composite pigments are developed by by Sensient Cosmetic Technologies' experts. This high technology provides outstanding sensorial properties from touch to visual effects. Our Covalumine® AS range is one of our latest innovation and this technology is patented.

## Regulations

The pigments used in our composites are all cosmetic grade pigments that comply with the European Cosmetic Regulation 1223/2009 EC (follow purity criterias of Food Regulation N°231/2012/EU), and/or FDA regulations.



# Covalumine® AS

Full Shade	Reduced Shade	Product Name	INCI NAME
		<b>COVALUMINE® YELLOW AS</b> Based on Unipure® Yellow LC182	CI 77492 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® SONOMA RED AS</b> Based on Unipure® Red LC383	CI 77491 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® TRIPLEBLACK AS</b> Based on Unipure® Triple Black LC990	CI 77499 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® WHITE AS</b> Based on Titanium Dioxide	CI 77891 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® SONOMA VIOLET AS</b> Based on Unipure® Violet LC581	CI 77742 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® SONOMA ULTRABLUE AS</b> Based on Unipure® Blue LC680	CI 77007 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® GREEN AS</b> Based on Unipure® Green LC788	CI 77288 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® SUNBURST YELLOW AS</b> Based on Unipure® Yellow LC125	CI 19140 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® FIRE RED AS</b> Based on Unipure® Red LC304	CI 15850 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® CHERRY RED AS</b> Based on D&C Red 30	CI 73360 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® RED ROSE AS</b> Based on Unipure® Red LC3071	CI 15850 (and) Aluminum Hydroxide (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® CAMPARI RED AS</b> Based on Carmine	CI 75470 (and) Alumina (and) Triethoxycaprylylsilane
		<b>COVALUMINE® ASTRAL BLUE AS</b> Based on Unipure® Blue LC621	CI 42090 (and) Alumina (and) Triethoxycaprylylsilane



- Unique shiny optical effect
- Medium to high coverage
- Highly homogeneous application
- Ultra-smooth creamy feel on the skin
- Highly hydrophobic: very good affinity in oil phase and water resistance (thanks to AS treatment)
- No need for grinding with no compromise on color shade development

INCI & Regulations			
Europe	China	USA	Japan
CI 77492 PT/BP 1 / E172	CI 77492 PT/BP 1	Iron Oxides MEA	Yellow Oxide of Iron I
CI 77491 PT/BP 1 / E172	CI 77491 PT/BP 1	Iron Oxides MEA	Red Oxide of Iron I
CI 77499 PT/BP 1 / E172	CI 77499 PT/BP 1	Iron Oxides MEA	Black Oxide of Iron I
CI 77891 PT/BP 1 / E171	CI 77891 PT/BP 1	Titanium Dioxide MEA	Titanium Dioxide I
CI 77742 PT/BP 1	CI 77742 PT/BP 1	Manganese Violet MEA	Manganese Violet I
CI 77007 PT/BP 1	CI 77007 PT/BP 1	Ultramarines EXT/EA	Ultramarine Blue I
CI 77288 PT/BP 1	CI 77288 PT/BP 1	Chromium Oxide Greens EXT/EA	Chromium Oxide I
CI 19140 PT/BP 1 / E102	CI 19140 PT/BP 1	Yellow 5 Lake MEA	K4 I
CI 15850 PT/BP 1	CI 15850 PT/BP 1	Red 6 Lake M	---
CI 73360 PT/BP 1	CI 73360 PT/BP 1	D&C Red 30 M	Red 226 I
CI 15850 PT/BP 1 / E180	CI 15850 PT/BP 1	Red 7 Lake M	Aka202 I
CI 75470 PT/BP 1 / E120	CI 75470 PT/BP 1	Carmine MEA	Carmine I
CI 42090 PT/BP 1	CI 42090 PT/BP 1	Blue 1 Lake MEA	Ao1 I

Europe / China

USA

Japan

Product Type / Body Part (PT/BP)

PT/BP 1 : allowed in all cosmetic products

PT/BP 2 : allowed in all cosmetic products except those intended to be applied in the vicinity of the eyes, in particular eye make-up and eye make-up remover.

PT/BP 3 : allowed exclusively in cosmetic products intended not to come into contact with the mucous membranes.

PT/BP 4 : allowed exclusively in cosmetic products intended to come into contact only briefly with the skin.

MEA : for coloring cosmetics generally, including those intended for use in the area of the eye.

M : for coloring cosmetics generally.

EXT : for coloring externally applied cosmetics.

EXT/EA : for coloring externally applied cosmetics, including cosmetics intended for use in the area of the eye.

EXT\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.

EXT\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (5% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.

EXT\*\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products). Not permitted in mouthwashes, dentifrices or other oral products.

B : for coloring the following cosmetics only : eyeliner, brush-on-brow, eye shadow, mascara, lipstick, blushers and rouge, make-up and foundation, and nail enamel.

T : for use only in toothpastes at not more than 0.1 %

I. Permitted in all cosmetics (this includes lip/oral, eye area, external, and rinse-off)


II. Permitted for externally applied cosmetics (this includes eye area, external, and rinse-off)

III. Permitted for externally applied cosmetics not applied to mucous membranes (this includes eye area except for eyeliners, external, and rinse-off)

\* : Permitted for nail and hair products only.

# Lumisens® AS

Full Shade	Reduced Shade	Product Name	INCI NAME
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		<b>LUMISENS® CV10 YELLOW AS</b> Based on Unipure® Yellow LC182	CI 77492 (and) Polymethyl Methacrylate (and) Triethoxycaprylsilane
		<b>LUMISENS® CV10 RED AS</b> Based on Unipure® Red LC381	CI 77491 (and) Polymethyl Methacrylate (and) Triethoxycaprylsilane
		<b>LUMISENS® CV10 TRIPLE BLACK AS</b> Based on Unipure® Triple Black LC990	CI 77499 (and) Polymethyl Methacrylate (and) Triethoxycaprylsilane
		<b>LUMISENS® CV10 WHITE AS</b> Based on Titanium Dioxide	CI 77891 (and) Polymethyl Methacrylate (and) Triethoxycaprylsilane

		<b>LUMISENS® CV20 SUN YELLOW AS</b> Based on Unipure® Yellow LC125	CI 19140 (and) Polymethylmethacrylate (and) Triethoxycaprylsilane
		<b>LUMISENS® CV20 RUBY ROSE AS</b> Based on Unipure® Red LC3075	CI 15850 (and) Polymethylmethacrylate (and) Aluminium Hydroxide (and) Triethoxycaprylsilane
		<b>LUMISENS® CV20 ASTRAL BLUE AS</b> Based on Unipure® Blue LC621	CI 42090 (and) Polymethylmethacrylate (and) Triethoxycaprylsilane
		<b>LUMISENS® CV20 WHITE AS</b> Based on Unipure® White LC987	CI 77891 (and) Polymethylmethacrylate (and) Triethoxycaprylsilane



- Unique velvet matte optical effect
- Light to medium coverage
- Homogeneous coverage
- Very smooth feeling on skin
- Highly hydrophobic: very good affinity in oil phase and water resistance (thanks to AS treatment)
- No need for grinding with no compromise on color shade development

INCI & Regulations			
Europe	China	USA	Japan
CI 77492 PT/BP 1 / E172	CI 77492 PT/BP 1	Iron Oxides MEA	Yellow Oxide of Iron I
CI 77491 PT/BP 1 / E172	CI 77491 PT/BP 1	Iron Oxides MEA	Red Oxide of Iron I
CI 77499 PT/BP 1 / E172	CI 77499 PT/BP 1	Iron Oxides MEA	Black Oxide of Iron I
CI 77891 PT/BP 1 / E171	CI 77891 PT/BP 1	Titanium Dioxide MEA	Titanium Dioxide I
CI 19140 PT/BP 1 / E102	CI 19140 PT/BP 1	Yellow 5 Lake MEA	K4 I
CI 15850 PT/BP 1 / E180	CI 15850 PT/BP 1	Red 7 Lake M	Aka 202 I
CI 42090 PT/BP 1 / E133	CI 42090 PT/BP 1	Blue 1 Lake MEA	Ao1 I
CI 77891 PT/PB1 / E171	CI 77891 PT/PB1	Titanium dioxide MEA	Titanium dioxide I

Europe / China

Product Type / Body Part (PT/BP)

PT/BP 1 : allowed in all cosmetic products

PT/BP 2 : allowed in all cosmetic products except those intended to be applied in the vicinity of the eyes, in particular eye make-up and eye make-up remover.

PT/BP 3 : allowed exclusively in cosmetic products intended not to come into contact with the mucous membranes.

PT/BP 4 : allowed exclusively in cosmetic products intended to come into contact only briefly with the skin.

USA

MEA : for coloring cosmetics generally, including those intended for use in the area of the eye.

M : for coloring cosmetics generally.

EXT : for coloring externally applied cosmetics.

EXT/EA : for coloring externally applied cosmetics, including cosmetics intended for use in the area of the eye.

EXT\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.

EXT\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (5% max in the finished cosmetic products), mouthwashes (including breath fresheners) and toothpastes.

EXT\*\*\* : for coloring externally applied cosmetics, for coloring cosmetic lip products (3% max in the finished cosmetic products). Not permitted in mouthwashes, dentifrices or other oral products.

B : for coloring the following cosmetics only : eyeliner, brush-on-brow, eye shadow, mascara, lipstick, blushers and rouge, make-up and foundation, and nail enamel.

T : for use only in toothpastes at not more than 0.1 %

Japan

I. Permitted in all cosmetics (this includes lip/oral, eye area, external, and rinse-off)

II. Permitted for externally applied cosmetics (this includes eye area, external, and rinse-off)

III. Permitted for externally applied cosmetics not applied to mucous membranes (this includes eye area except for eyeliners, external, and rinse-off)

\* : Permitted for nail and hair products only.









**SENSIENT<sup>®</sup>**  
**COSMETIC TECHNOLOGIES**

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