

Catalogue of nanomaterials used in cosmetic products placed on the EU market

Version 1 (31.12.2016)

According to Article 16(10)(a) of Regulation (EC) No 1223/2009 on cosmetic products¹, the Commission shall make available a catalogue of all nanomaterials² used in cosmetics placed on the market, including those used as colorants, UV-filters and preservatives in a separate section, indicating the categories of cosmetic products and the reasonably foreseeable exposure conditions. This catalogue shall be regularly updated and be made publicly available.

The catalogue lists the nanomaterials *used in cosmetics placed on the market*. It is **based on information notified electronically by responsible persons³ to the European Commission⁴** through the Cosmetic Products Notification Portal (CPNP)⁵. The European Commission takes no responsibility for the content and the scientific qualification of the notifications made in the CPNP.

Based on the current knowledge on nanomaterials, there may be some uncertainties regarding the status as nanomaterials of some notified substances. **The catalogue remains a work in progress subject to modifications and will be updated regularly.**

The functions of the nanomaterials listed in this catalogue (12 as colorants, 6 as UV-filters and 25 as other functions) are based on the names of substances notified and, generally, on the corresponding functions that are displayed in the CosIng database⁶ and where relevant on other information at the disposal of the Commission. Some substances may have more than one function.

This catalogue has an informative value only and is not in any case a list of authorised nanomaterials.

¹ [OJ L 342, 22.12.2009, p. 59.](#)

² Nanomaterial is defined in Article 2(1)(k) of Regulation (EC) No 1223/2009 as "an insoluble or biopersistent and intentionally manufactured material with one or more external dimensions, or an internal structure, on the scale from 1 nm to 100 nm".

³ Article 4(1) of Regulation (EC) No 1223/2009: "Only cosmetic products for which a legal or natural person is designated within the Community as 'responsible person' shall be placed on the market." Article 4 (2): "For each cosmetic product placed on the market, the responsible person shall ensure compliance with the relevant obligations set out in this Regulation".

⁴ Pursuant to Article 13(1) of Regulation (EC) No 1223/2009, the responsible person shall notify information with respect to their cosmetic product by electronic means to the Commission, prior to placing them on the market. That information shall include the presence of substances in the form of nanomaterials, with their identification and the reasonably foreseeable exposure conditions (Article 13(1)(f)).

⁵ The CPNP is a free of charge online notification system created for the implementation of Regulation (EC) No 1223/2009 on cosmetic products: http://ec.europa.eu/growth/sectors/cosmetics/cpnp/index_en.htm.

⁶ CosIng is the European Commission database for information on cosmetic substances and ingredients.

Colorants

| | Name ⁷ | Category of cosmetics | Exposure | Rinse-off | Leave-on |
|-------------------------|-------------------------------------|------------------------------------------------|--------------------------|-----------|----------|
| 1 | ACID YELLOW 23 / CI 19140 | Body or face paint, including carnival make-up | Dermal | x | |
| | ACID YELLOW 23 / CI 19140 | Eye shadow | Dermal | | x |
| | ACID YELLOW 23 / CI 19140 | Lip stick | Dermal | | x |
| | ACID YELLOW 23 / CI 19140 | Nail varnish / Nail make-up | Dermal | | x |
| 2 | BARIUM SULFATE / CI 77120 | Nail care products | Dermal | | x |
| | BARIUM SULFATE / CI 77120 | Nail hardener | Dermal | | x |
| | BARIUM SULFATE / CI 77120 | Nail varnish / Nail make-up | Dermal | | x |
| 3 | CARBON BLACK / CI 77266 | Body or face paint, including carnival make-up | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Bath / shower products | Dermal | x | |
| | CARBON BLACK / CI 77266 | Eye contour products | Dermal | | x |
| | CARBON BLACK / CI 77266 | Eye liner | Dermal, oral, inhalation | x | x |
| | CARBON BLACK / CI 77266 | Eye pencil | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Eye shadow | Dermal, oral, inhalation | x | x |
| | CARBON BLACK / CI 77266 | Face mask | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Foundation | Dermal | x | |
| | CARBON BLACK / CI 77266 | Mascara | Dermal, oral, inhalation | x | x |
| | CARBON BLACK / CI 77266 | Nail sculpting products | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Nail varnish / Nail make-up | Dermal, oral, inhalation | x | x |
| | CARBON BLACK / CI 77266 | Non-oxidative hair colour products | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Other eye make-up products | Dermal, inhalation | x | x |
| | CARBON BLACK / CI 77266 | Other face make-up products | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Other hair colouring products | Dermal | | x |
| | CARBON BLACK / CI 77266 | Other lip make-up products | Dermal | | x |
| | CARBON BLACK / CI 77266 | Other make-up products | Dermal | x | x |
| | CARBON BLACK / CI 77266 | Other nail and cuticle products | Dermal | | x |
| | CARBON BLACK / CI 77266 | Other nail varnish and remover products | Dermal | | x |
| | CARBON BLACK / CI 77266 | Other skin products | Dermal | | x |
| CARBON BLACK / CI 77266 | Oxidative hair colour products | Dermal | x | | |
| CARBON BLACK / CI 77266 | Products for temporary hair styling | Dermal | | x | |
| CARBON BLACK / CI 77266 | Soap products | Dermal | x | | |
| 4 | CI 77288 | Eye shadow | Dermal | x | |
| | CI 77288 | Nail sculpting products | Dermal | x | |
| | CI 77288 | Soap products | Dermal | x | |
| 5 | CI 77491 | Bath / shower products | Dermal | x | |
| | CI 77491 | Eye liner | Dermal | | x |
| | CI 77491 | Eye shadow | Dermal | x | x |
| | CI 77491 | Foundation | Dermal | | x |
| | CI 77491 | Lip stick | Dermal | | x |

⁷ In principle (EU) International Nomenclature of Cosmetic Ingredients name or other name.

| | | | | | |
|---|-------------------|------------------------------------------------|--------------------------|---|---|
| | CI 77491 | Mascara | Dermal | | x |
| | CI 77491 | Nail sculpting products | Dermal | x | x |
| | CI 77491 | Nail varnish / Nail make-up | Dermal | | x |
| | CI 77491 | Other face make-up products | Dermal | | x |
| | CI 77491 | Other skin cleansing products | Dermal | x | |
| | CI 77491 | Soap products | Dermal | x | |
| 6 | CI 77499 | Eye liner | Dermal | | x |
| | CI 77499 | Eye shadow | Dermal | x | x |
| | CI 77499 | Foundation | Dermal | | x |
| | CI 77499 | Lip stick | Dermal | | x |
| | CI 77499 | Mascara | Dermal | x | x |
| | CI 77499 | Nail varnish / Nail make-up | Dermal | | x |
| | CI 77499 | Other eye make-up products | Dermal | | x |
| | CI 77499 | Other face make-up products | Dermal | | x |
| 7 | CI 77510 | Eye liner | Dermal | x | |
| | CI 77510 | Eye shadow | Dermal | x | x |
| | CI 77510 | Nail varnish / Nail make-up | Dermal | | x |
| | CI 77510 | Other face make-up products | Dermal | | x |
| 8 | CI 77891 | Body or face paint, including carnival make-up | Dermal | x | |
| | CI 77891 | Bath / shower products | Dermal | x | |
| | CI 77891 | Before and after sun products | Dermal | | x |
| | CI 77891 | Concealer | Dermal | x | x |
| | CI 77891 | Eye contour products | Dermal | | x |
| | CI 77891 | Eye liner | Dermal | | x |
| | CI 77891 | Eye shadow | Dermal | x | x |
| | CI 77891 | Face care products other than face mask | Dermal | x | x |
| | CI 77891 | Face mask | Dermal | | x |
| | CI 77891 | Foundation | Dermal | x | x |
| | CI 77891 | Hand care products | Dermal | | x |
| | CI 77891 | Lip care products | Dermal, oral | | x |
| | CI 77891 | Lip stick | Dermal | | x |
| | CI 77891 | Make-up remover products | Dermal | x | |
| | CI 77891 | Nail care products | Dermal | | x |
| | CI 77891 | Nail hardener | Dermal | | x |
| | CI 77891 | Nail sculpting products | Dermal | x | x |
| | CI 77891 | Nail varnish / Nail make-up | Dermal, oral, inhalation | x | x |
| | CI 77891 | Other face make-up products | Dermal | x | x |
| | CI 77891 | Other lip make-up products | Dermal | | x |
| | CI 77891 | Other make-up products | Dermal, inhalation | x | x |
| | CI 77891 | Other nail care / nail hardener products | Dermal | | x |
| | CI 77891 | Other nail varnish and remover products | Dermal | | x |
| | CI 77891 | Products for temporary hair styling | Dermal | | x |
| | CI 77891 | Shaving products | Dermal | x | |
| | CI 77891 | Skin lightening products | Dermal | | x |
| | CI 77891 | Soap products | Dermal, oral | x | x |
| | CI 77891 | Sun protection products | Dermal, oral | x | x |
| 9 | COPPER / CI 77400 | Body care products | Dermal | | x |

| | | | | | |
|----|----------------------------------------------|------------------------------------------------|--------------|---|---|
| | COPPER / CI 77400 | External Intimate hygiene products | Dermal | x | |
| | COPPER / CI 77400 | Face care products other than face mask | Dermal | | x |
| | COPPER / CI 77400 | Mouth wash | Dermal | x | |
| | COPPER / CI 77400 | Soap products | Dermal | x | |
| | COPPER / CI 77400 | Foundation | Dermal | | x |
| | COPPER / CI 77400 | Lip care products | Dermal | | x |
| | COPPER / CI 77400 | Nail sculpting products | Dermal | x | |
| | COPPER / CI 77400 | Other face make-up products | Dermal | | x |
| | COPPER / CI 77400 | Shampoo | Dermal | x | |
| 10 | GOLD / CI 77480 | Body care products | Dermal | x | x |
| | GOLD / CI 77480 | Face care products other than face mask | Dermal | | x |
| | GOLD / CI 77480 | Face mask | Dermal | x | x |
| | GOLD / CI 77480 | Foundation | Dermal | | x |
| | GOLD / CI 77480 | Hydroalcoholic perfumes | Dermal | | x |
| | GOLD / CI 77480 | Other face make-up products | Dermal | | x |
| | GOLD / CI 77480 | Other lip make-up products | Oral | | x |
| | GOLD / CI 77480 | Other skin cleansing products | Dermal | | x |
| 11 | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Body or face paint, including carnival make-up | Dermal | x | |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Eye shadow | Dermal | | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Lip stick | Dermal | | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Nail sculpting products | Dermal | x | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Nail varnish / Nail make-up | Dermal | | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Other eye make-up products | Dermal | | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Other face make-up products | Dermal | | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Other make-up products | Dermal | | x |
| | PIGMENT RED 57 / PIGMENT RED 57:1 / CI 15850 | Other skin products | Dermal | x | |
| 12 | SILVER / CI 77820 | Antihairloss products | Oral | | x |
| | SILVER / CI 77820 | Bath / shower products | Dermal | x | |
| | SILVER / CI 77820 | Body care products | Dermal | | x |
| | SILVER / CI 77820 | Chemical exfoliation products | Dermal | x | |
| | SILVER / CI 77820 | External Intimate hygiene products | Dermal | x | |
| | SILVER / CI 77820 | Eye contour products | Dermal, oral | | x |
| | SILVER / CI 77820 | Face care products other than face mask | Dermal, oral | | x |
| | SILVER / CI 77820 | Face mask | Dermal | | x |
| | SILVER / CI 77820 | Foot care products | Dermal | | x |
| | SILVER / CI 77820 | Hydroalcoholic perfumes | Dermal | | x |
| | SILVER / CI 77820 | Make-up remover products | Dermal | x | x |
| | SILVER / CI 77820 | Other skin care products | Dermal | | x |
| | SILVER / CI 77820 | Other skin cleansing products | Dermal | x | x |
| | SILVER / CI 77820 | Other skin products | Dermal | | x |
| | SILVER / CI 77820 | Products with antiperspirant | Dermal | | x |

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|--|-------------------|---------------|--------|---|--|
| | | activity | | | |
| | SILVER / CI 77820 | Soap products | Dermal | x | |
| | SILVER / CI 77820 | Toothpaste | Dermal | x | |

UV-filters

| | Name | Category of cosmetics | Exposure | Rinse-off | Leave-on |
|------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------|-----------------|-----------|----------|
| 1 | BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE | Face care products other than face mask | Dermal | | x |
| | BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE | Sun protection products | Dermal | | x |
| 2 | ETHYLHEXYL METHOXYCINNAMATE | Face care products other than face mask | Dermal | | x |
| | ETHYLHEXYL METHOXYCINNAMATE | Foundation | Dermal | | x |
| 3 | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL ⁸ | Before and after sun products | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Body care products | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Chemical exfoliation products | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Concealer | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Eye contour products | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Face care products other than face mask | Dermal | x | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Face mask | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Foundation | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Hand care products | Dermal | | x |
| | METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Lip care products | Dermal, oral | | x |
| METHYLENE BIS- BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Other skin care products | Dermal | | x | |

⁸ MBBT (nano) has been evaluated as safe for use as a UV-filter by the Scientific Committee on Consumer Safety ('SCCS') under certain conditions (opinion SCCS/1546/15).

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|---|-----------------------------------------------------|------------------------------------------------|--------------------------|---|---|
| | METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Other sun and self-tanning products | Dermal | | x |
| | METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Self-tanning products | Dermal | | x |
| | METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Skin lightening products | Dermal | | x |
| | METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL | Sun protection products | Dermal, oral, inhalation | x | x |
| 4 | TITANIUM DIOXIDE | Body or face paint, including carnival make-up | Dermal | x | |
| | TITANIUM DIOXIDE | Bath / shower products | Dermal | x | |
| | TITANIUM DIOXIDE | Before and after sun products | Dermal | | x |
| | TITANIUM DIOXIDE | Body care products | Dermal | x | x |
| | TITANIUM DIOXIDE | Chemical exfoliation products | Dermal | | x |
| | TITANIUM DIOXIDE | Concealer | Dermal | x | x |
| | TITANIUM DIOXIDE | External Intimate hygiene products | Dermal | | x |
| | TITANIUM DIOXIDE | Eye contour products | Dermal | x | x |
| | TITANIUM DIOXIDE | Eye liner | Dermal | x | x |
| | TITANIUM DIOXIDE | Eye pencil | Dermal | | x |
| | TITANIUM DIOXIDE | Eye shadow | Dermal | | x |
| | TITANIUM DIOXIDE | Face care products other than face mask | Dermal, oral | x | x |
| | TITANIUM DIOXIDE | Face mask | Dermal | x | x |
| | TITANIUM DIOXIDE | Foot care products | Dermal | x | |
| | TITANIUM DIOXIDE | Foundation | Dermal, oral, inhalation | x | x |
| | TITANIUM DIOXIDE | Hair conditioner | Dermal | x | |
| | TITANIUM DIOXIDE | Hand care products | Dermal | x | x |
| | TITANIUM DIOXIDE | Lip care products | Dermal, oral, inhalation | x | x |
| | TITANIUM DIOXIDE | Lip stick | Dermal, oral | x | x |
| | TITANIUM DIOXIDE | Make-up remover products | Dermal | x | |
| | TITANIUM DIOXIDE | Mechanical exfoliation products | Dermal | x | |
| | TITANIUM DIOXIDE | Nail bleach | Dermal | | x |
| | TITANIUM DIOXIDE | Nail care products | Dermal | | x |
| | TITANIUM DIOXIDE | Nail hardener | Dermal | | x |
| | TITANIUM DIOXIDE | Nail varnish / Nail make-up | Dermal, oral, inhalation | x | x |
| | TITANIUM DIOXIDE | Other eye make-up products | Dermal | | x |
| | TITANIUM DIOXIDE | Other face make-up products | Dermal, oral | x | x |
| | TITANIUM DIOXIDE | Other lip make-up products | Dermal, oral, inhalation | x | x |
| | TITANIUM DIOXIDE | Other make-up products | Dermal | x | x |
| | TITANIUM DIOXIDE | Other nail care / nail hardener products | Dermal | | x |
| | TITANIUM DIOXIDE | Other skin care products | Dermal | | x |

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|---|------------------------|-----------------------------------------|--------------------------------|---|---|
| | TITANIUM DIOXIDE | Other skin cleansing products | Dermal | x | x |
| | TITANIUM DIOXIDE | Other skin products | Dermal | | x |
| | TITANIUM DIOXIDE | Other sun and self-tanning products | Dermal | | x |
| | TITANIUM DIOXIDE | Physical epilation products | Dermal | x | |
| | TITANIUM DIOXIDE | Products for temporary hair styling | Dermal | | x |
| | TITANIUM DIOXIDE | Products with antiperspirant activity | Dermal | | x |
| | TITANIUM DIOXIDE | Self-tanning products | Dermal | | x |
| | TITANIUM DIOXIDE | Skin lightening products | Dermal | x | x |
| | TITANIUM DIOXIDE | Soap products | Dermal | x | |
| | TITANIUM DIOXIDE | Sun protection products | Dermal, oral, inhalation | x | x |
| | TITANIUM DIOXIDE | Tooth whiteners | Oral | x | x |
| | TITANIUM DIOXIDE | Toothpaste | Oral | x | |
| 5 | TRIS-BIPHENYL TRIAZINE | Face care products other than face mask | Dermal | | x |
| | TRIS-BIPHENYL TRIAZINE | Foundation | Dermal | | x |
| | TRIS-BIPHENYL TRIAZINE | Skin lightening products | Dermal | | x |
| | TRIS-BIPHENYL TRIAZINE | Sun protection products | Dermal, oral | | x |
| 6 | ZINC OXIDE | Bath / shower products | Dermal | x | |
| | ZINC OXIDE | Before and after sun products | Dermal | | x |
| | ZINC OXIDE | Body care products | Dermal | x | x |
| | ZINC OXIDE | Concealer | Dermal | x | x |
| | ZINC OXIDE | External intimate hygiene products | Dermal | x | |
| | ZINC OXIDE | External intimate care products | Dermal | | x |
| | ZINC OXIDE | Eye contour products | Dermal | | x |
| | ZINC OXIDE | Eye shadow | Dermal | | x |
| | ZINC OXIDE | Face care products other than face mask | Dermal | x | x |
| | ZINC OXIDE | Face mask | Dermal, oral | x | x |
| | ZINC OXIDE | Foot care products | Dermal | | x |
| | ZINC OXIDE | Foundation | Dermal | x | x |
| | ZINC OXIDE | Hand care products | Dermal | | x |
| | ZINC OXIDE | Lip care products | Dermal, oral | | x |
| | ZINC OXIDE | Lip stick | Dermal, oral, inhalation | | x |
| | ZINC OXIDE | Other face make-up products | Dermal | | x |
| | ZINC OXIDE | Other lip make-up products | Dermal | | x |
| | ZINC OXIDE | Other make-up products | Dermal | | x |
| | ZINC OXIDE | Other skin care products | Dermal | | x |
| | ZINC OXIDE | Other skin cleansing products | Dermal | x | x |
| | ZINC OXIDE | Physical epilation products | Dermal | x | |
| | ZINC OXIDE | Products with antiperspirant activity | Dermal | | x |
| | ZINC OXIDE | Scalp and hair roots care products | Dermal | | x |
| | ZINC OXIDE | Skin lightening products | Dermal | | x |
| | ZINC OXIDE | Sun protection products | Dermal, oral | x | x |

Other functions than colorant, preservative and UV-filter

| | Name | Category of cosmetics | Exposure | Rinse-off | Leave-on |
|----------------|--------------------|-----------------------------------------|----------|-----------|----------|
| 1 | ALUMINA | Face care products other than face mask | Dermal | | x |
| | ALUMINA | Face mask | Dermal | | x |
| | ALUMINA | Nail varnish / Nail make-up | Dermal | x | x |
| | ALUMINA | Other skin products | Dermal | | x |
| | ALUMINA | Sun protection products | Dermal | | x |
| 2 | CELLULOSE | Body care products | Dermal | | x |
| 3 | COLLOIDAL COPPER | Bath / shower products | Dermal | x | |
| | COLLOIDAL COPPER | Foot care products | Dermal | | x |
| | COLLOIDAL COPPER | Shampoo | Dermal | x | |
| 4 | COLLOIDAL COPPER | Face care products other than face mask | Dermal | x | |
| | COLLOIDAL GOLD | Bath / shower products | Dermal | x | |
| | COLLOIDAL GOLD | Body care products | Dermal | | x |
| | COLLOIDAL GOLD | Eye contour products | Dermal | x | x |
| | COLLOIDAL GOLD | Face care products other than face mask | Dermal | x | x |
| | COLLOIDAL GOLD | Face mask | Dermal | x | x |
| | COLLOIDAL GOLD | Hair conditioner | Dermal | x | x |
| | COLLOIDAL GOLD | Hair relaxer / straightener products | Dermal | x | |
| | COLLOIDAL GOLD | Make-up remover products | Dermal | x | x |
| | COLLOIDAL GOLD | Mechanical exfoliation products | Dermal | x | |
| | COLLOIDAL GOLD | Other skin care products | Dermal | | x |
| | COLLOIDAL GOLD | Other skin cleansing products | Dermal | x | |
| | COLLOIDAL GOLD | Other skin products | Dermal | | x |
| | COLLOIDAL GOLD | Scalp and hair roots care products | Dermal | x | x |
| | COLLOIDAL GOLD | Shampoo | Dermal | x | |
| COLLOIDAL GOLD | Soap products | Dermal | x | | |
| 5 | COLLOIDAL PLATINUM | Face mask | Dermal | | x |
| | COLLOIDAL PLATINUM | Body care products | Dermal | | x |
| | COLLOIDAL PLATINUM | Eye contour products | Dermal | | x |
| | COLLOIDAL PLATINUM | Face care products other than face mask | Dermal | | x |
| | COLLOIDAL PLATINUM | Face mask | Dermal | | x |
| | COLLOIDAL PLATINUM | Hand care products | Dermal | | x |
| | COLLOIDAL PLATINUM | Make-up remover products | Dermal | | x |
| 6 | COLLOIDAL SILVER | Bath / shower products | Dermal | x | |
| | COLLOIDAL SILVER | Body care products | Dermal | | x |
| | COLLOIDAL SILVER | External intimate care products | Dermal | x | |
| | COLLOIDAL SILVER | Face care products other than face mask | Dermal | x | x |
| | COLLOIDAL SILVER | Face mask | Dermal | x | x |
| | COLLOIDAL SILVER | Foot care products | Dermal | x | x |
| | COLLOIDAL SILVER | Make-up remover products | Dermal | | x |

| | | | | | |
|----|-------------------------------------|-----------------------------------------|--------------|---|---|
| | COLLOIDAL SILVER | Mouth wash | Dermal, oral | x | |
| | COLLOIDAL SILVER | Other skin care products | Dermal | | x |
| | COLLOIDAL SILVER | Other skin cleansing products | Dermal | x | x |
| | COLLOIDAL SILVER | Other skin products | Dermal | | x |
| | COLLOIDAL SILVER | Pre- / after-shaving products | Dermal | x | |
| | COLLOIDAL SILVER | Products with antiperspirant activity | Dermal | | x |
| | COLLOIDAL SILVER | Shampoo | Dermal | x | |
| | COLLOIDAL SILVER | Soap products | Dermal | x | |
| | COLLOIDAL SILVER | Toothpaste | Oral | x | |
| 7 | FULLERENES | Scalp and hair roots care products | Dermal | | x |
| 8 | GOLD THIOETHYLAMINO HYALURONIC ACID | Eye contour products | Dermal | | x |
| | GOLD THIOETHYLAMINO HYALURONIC ACID | Face care products other than face mask | Dermal | | x |
| | GOLD THIOETHYLAMINO HYALURONIC ACID | Make-up remover products | Dermal | x | |
| | GOLD THIOETHYLAMINO HYALURONIC ACID | Soap products | Dermal | x | |
| 9 | HYDRATED SILICA | Bath / shower products | Dermal | x | |
| | HYDRATED SILICA | Body care products | Dermal | x | x |
| | HYDRATED SILICA | Eye contour products | Dermal | | x |
| | HYDRATED SILICA | Face care products other than face mask | Dermal | | x |
| | HYDRATED SILICA | Foot care products | Dermal | | x |
| | HYDRATED SILICA | Hair bleaching and dye remover products | Dermal | x | |
| | HYDRATED SILICA | Lip stick | Oral | | x |
| | HYDRATED SILICA | Nail varnish / Nail make-up | Dermal | | x |
| | HYDRATED SILICA | Other skin cleansing products | Dermal | x | |
| | HYDRATED SILICA | Toothpaste | Oral | x | |
| 10 | HYDROXYAPATITE | Mouth wash | Oral | x | x |
| | HYDROXYAPATITE | Other tooth care products | Oral | x | x |
| | HYDROXYAPATITE | Tooth whiteners | Oral | x | |
| | HYDROXYAPATITE | Toothpaste | Oral | x | x |
| 11 | LITHIUM MAGNESIUM SODIUM SILICATE | Bath / shower products | Dermal | x | |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Body care products | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Chemical depilatories | Dermal | x | |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Cuticle remover / softener | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Eye contour products | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Face care products other than face mask | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Face mask | Dermal | x | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Foundation | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Hair conditioner | Dermal | | x |

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|----|-----------------------------------|------------------------------------------------|--------------------------|---|---|
| | LITHIUM MAGNESIUM SODIUM SILICATE | Mascara | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Nail care products | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Nail varnish / Nail make-up | Dermal, inhalation | x | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Other nail and cuticle products | Dermal, oral, inhalation | x | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Other nail varnish and remover products | Dermal | | x |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Other skin cleansing products | Dermal | x | |
| | LITHIUM MAGNESIUM SODIUM SILICATE | Products for temporary hair styling | Dermal | | x |
| 12 | PLATINUM | Face care products other than face mask | Dermal | | x |
| | PLATINUM | Foundation | Dermal | | x |
| 13 | PLATINUM POWDER | Face care products other than face mask | Dermal | | x |
| | PLATINUM POWDER | Other make-up products | Dermal | | x |
| 14 | RETINOL | Body care products | Dermal | | x |
| | RETINOL | Other skin care products | Dermal | | x |
| 15 | SAPPHIRE POWDER | Face mask | Dermal | | x |
| 16 | SILICA | Body or face paint, including carnival make-up | Dermal | | x |
| | SILICA | Bath / shower products | Dermal | x | |
| | SILICA | Before and after sun products | Dermal | | x |
| | SILICA | Body care products | Dermal | x | x |
| | SILICA | Chemical exfoliation products | Dermal | x | x |
| | SILICA | Concealer | Dermal | x | x |
| | SILICA | Eye contour products | Dermal, oral | | x |
| | SILICA | Eye liner | Dermal | | x |
| | SILICA | Eye pencil | Dermal | | x |
| | SILICA | Eye shadow | Dermal | | x |
| | SILICA | Face care products other than face mask | Dermal, oral | x | x |
| | SILICA | Face mask | Dermal | x | x |
| | SILICA | Foot care products | Dermal | | x |
| | SILICA | Foundation | Dermal | | x |
| | SILICA | Hair bleaching and dye remover products | Dermal | x | |
| | SILICA | Hair relaxer / straightener products | Dermal | x | |
| | SILICA | Hand care products | Dermal, inhalation | | x |
| | SILICA | Lip care products | Dermal, oral | | x |
| | SILICA | Lip stick | Dermal, oral | | x |
| | SILICA | Make-up remover products | Dermal | x | |
| | SILICA | Mascara | Dermal | | x |
| | SILICA | Mechanical exfoliation products | Dermal | x | |
| | SILICA | Nail care products | Dermal | | x |
| | SILICA | Nail hardener | Dermal | | x |

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|----|-----------------------------|-----------------------------------------|--------------------------|---|---|
| | SILICA | Nail varnish / Nail make-up | Dermal, inhalation | x | x |
| | SILICA | Other eye make-up products | Dermal | | x |
| | SILICA | Other face make-up products | Dermal | | x |
| | SILICA | Other lip make-up products | Dermal, oral | | x |
| | SILICA | Other make-up products | Dermal, oral | x | x |
| | SILICA | Other oral hygiene products | Oral | | x |
| | SILICA | Other skin care products | Dermal | x | x |
| | SILICA | Other skin cleansing products | Dermal | x | x |
| | SILICA | Other skin products | Dermal | | x |
| | SILICA | Other sun and self-tanning products | Dermal | | x |
| | SILICA | Other tooth care products | Oral | x | |
| | SILICA | Products for temporary hair styling | Dermal | | x |
| | SILICA | Products with antiperspirant activity | Dermal | | x |
| | SILICA | Shampoo | Dermal | | x |
| | SILICA | Skin lightening products | Dermal | | x |
| | SILICA | Sun protection products | Dermal | | x |
| | SILICA | Toothpaste | Oral | x | |
| 17 | SILICA DIMETHICONE SILYLATE | Face care products other than face mask | Dermal | | x |
| | SILICA DIMETHICONE SILYLATE | Foundation | Dermal | | x |
| 18 | SILICA DIMETHYL SILYLATE | Nail sculpting products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Other make-up products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Before and after sun products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Body care products | Dermal | x | x |
| | SILICA DIMETHYL SILYLATE | Concealer | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Eye contour products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Eye liner | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Eye shadow | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Face care products other than face mask | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Face mask | Dermal | x | x |
| | SILICA DIMETHYL SILYLATE | Foot care products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Foundation | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Hair bleaching and dye remover products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Hair bleaching and dye remover products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Hair conditioner | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Hand care products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Lip care products | Dermal, oral | | x |
| | SILICA DIMETHYL SILYLATE | Lip stick | Dermal, oral | | x |
| | SILICA DIMETHYL SILYLATE | Lipstick sealer | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Mascara | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Mechanical exfoliation products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Nail sculpting products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Other face make-up products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Other lip make-up products | Dermal, oral, inhalation | | x |
| | SILICA DIMETHYL SILYLATE | Other make-up products | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Other skin cleansing products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Other sun and self-tanning | Dermal | | x |

| | | | | | |
|----|------------------------------------------------|-----------------------------------------|--------------|---|---|
| | | products | | | |
| | SILICA DIMETHYL SILYLATE | Oxidative hair colour products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Products with antiperspirant activity | Dermal | | x |
| | SILICA DIMETHYL SILYLATE | Shaving products | Dermal | x | |
| | SILICA DIMETHYL SILYLATE | Sun protection products | Dermal, oral | | x |
| 19 | SILICA SILYLATE | Concealer | Dermal | | x |
| | SILICA SILYLATE | Eye liner | Dermal | | x |
| | SILICA SILYLATE | Eye pencil | Dermal | | x |
| | SILICA SILYLATE | Foundation | Dermal | | x |
| | SILICA SILYLATE | Hand care products | Dermal | | x |
| | SILICA SILYLATE | Mascara | Dermal | | x |
| | SILICA SILYLATE | Nail care products | Dermal | | x |
| | SILICA SILYLATE | Nail varnish remover | Dermal | | x |
| | SILICA SILYLATE | Other lip make-up products | Dermal, oral | | x |
| | SILICA SILYLATE | Other nail and cuticle products | Dermal | | x |
| | SILICA SILYLATE | Products for temporary hair styling | Dermal | | x |
| 20 | SODIUM MAGNESIUM FLUROSILICATE | Body care products | Dermal | | x |
| | SODIUM MAGNESIUM FLUROSILICATE | Eye contour products | Dermal | | x |
| | SODIUM MAGNESIUM FLUROSILICATE | Face care products other than face mask | Dermal | | x |
| | SODIUM MAGNESIUM FLUROSILICATE | Other make-up products | Dermal | | x |
| | SODIUM MAGNESIUM FLUROSILICATE | Other skin care products | Dermal | | x |
| | SODIUM MAGNESIUM FLUROSILICATE | Other skin cleansing products | Dermal | x | |
| | SODIUM MAGNESIUM FLUROSILICATE | Pre- / after-shaving products | Dermal | | x |
| 21 | SODIUM MAGNESIUM SILICATE | Body care products | Dermal | | x |
| | SODIUM MAGNESIUM SILICATE | Eye contour products | Dermal | | x |
| | SODIUM MAGNESIUM SILICATE | Face care products other than face mask | Dermal | | x |
| | SODIUM MAGNESIUM SILICATE | Hand care products | Dermal | | x |
| | SODIUM MAGNESIUM SILICATE | Nail varnish / Nail make-up | Dermal | | x |
| 22 | SODIUM PROPOXYHYDROXYPROPYL THIOSULFATE SILICA | Nail care products | Dermal | | x |
| | SODIUM PROPOXYHYDROXYPROPYL THIOSULFATE SILICA | Nail hardener | Dermal | | x |
| 23 | STYRENE/ACRYLATES COPOLYMER | Body care products | Dermal | | x |
| | STYRENE/ACRYLATES COPOLYMER | Eye contour products | Dermal | | x |
| | STYRENE/ACRYLATES COPOLYMER | Face care products other than face mask | Dermal | | x |
| | STYRENE/ACRYLATES COPOLYMER | Nail varnish / Nail make-up | Dermal | | x |
| 24 | TIN OXIDE | Skin and hair products | Dermal | x | x |
| 25 | TOCOPHERYL ACETATE | Eye liner | Dermal | | x |
| | TOCOPHERYL ACETATE | Eye shadow | Dermal | | x |

| | | | | |
|--------------------|-----------------------------|--------|---|---|
| TOCOPHERYL ACETATE | Foundation | Dermal | | x |
| TOCOPHERYL ACETATE | Lip stick | Dermal | | x |
| TOCOPHERYL ACETATE | Mascara | Dermal | | x |
| TOCOPHERYL ACETATE | Other oral hygiene products | Oral | x | |
| TOCOPHERYL ACETATE | Self-tanning products | Dermal | x | |

Catalogue of nanomaterials used in cosmetic products placed on the market

Explanatory note to the catalogue

According to Article 16(10)(a) of Regulation (EC) No 1223/2009 on cosmetic products⁹ (Cosmetics Regulation), the European Commission shall make available a catalogue of all nanomaterials used in cosmetic products placed on the market, including those used as colorants, UV-filters and preservatives in a separate section, indicating the categories of cosmetic products and the reasonably foreseeable exposure conditions. This catalogue shall be regularly updated and be made publicly available.

In the EU, all cosmetic products have to be notified electronically to the European Commission¹⁰ through the **Cosmetic Products Notification Portal (CPNP)**¹¹ by the **responsible person**¹², prior to being placed on the market, for the purposes of market surveillance and for prompt and appropriate medical treatment. The information provided includes the identification of the nanomaterials present in the product. Therefore, the present catalogue of all nanomaterials used in cosmetics placed on the market is a compilation of the information notified to the European Commission through the CPNP.

The publication of the catalogue was delayed several times as the data extracted from the CPNP showed a high level of inconsistency or inaccuracy. For instance, substances unlikely to exist as nanomaterials were notified or substances indicated as nanomaterials had not been notified according to the specific CPNP notification procedure for nanomaterials¹³.

In order to obtain reliable and accurate data from the CPNP, the Commission requested responsible persons to check and correct, if necessary, the information

⁹ [OJ L 342, 22.12.2009, p. 59.](#)

¹⁰ Pursuant to Article 13(1) of Regulation (EC) No 1223/2009, the responsible person shall notify information with respect to their cosmetic product by electronic means to the Commission, prior to placing them on the market. That information shall include the presence of substances in the form of nanomaterials, with their identification and the reasonably foreseeable exposure conditions (Article 13(1)(f)).

¹¹ The CPNP is a free of charge online notification system created for the implementation of the Cosmetics Regulation: http://ec.europa.eu/growth/sectors/cosmetics/cpnp/index_en.htm.

¹² Article 4(1) of Regulation (EC) No 1223/2009: "Only cosmetic products for which a legal or natural person is designated within the Community as 'responsible person' shall be placed on the market." Article 4(2): "For each cosmetic product placed on the market, the responsible person shall ensure compliance with the relevant obligations set out in this Regulation".

¹³ Article 16(3) of Regulation (EC) No 1223/2009: "In addition to the notification under Article 13, cosmetic products containing nanomaterials shall be notified to the Commission by the responsible person by electronic means six months prior to being placed on the market, except where they have already been placed on the market by the same responsible person before 11 January 2013."

notified in the CPNP or regularise their situation in case of non-compliance. Furthermore, the Member States were asked to intervene through market surveillance on various occasions. Thanks to these remedial actions the present catalogue now contains more consistent and accurate information.

The functions of the nanomaterials listed in this catalogue (colorants, preservatives, UV-filters and other functions) are based on the names of substances notified and, generally, on the corresponding functions that are displayed in the CosIng database¹⁴ and where relevant, other information at the Commission's disposal. Some substances may have more than one function.

The Commission will continue to actively support industry Member States and industry in this joint effort to constantly improve the quality of the data notified in the CPNP. **This catalogue has an informative value only and is not in any case a list of authorised nanomaterials. The catalogue remains a 'work in progress', subject to modifications, and will be updated regularly.**

By the end of 2016, less than 1% of cosmetic products notified in the CPNP were identified as containing nanomaterials.

¹⁴ CosIng is the European Commission database for information on cosmetic substances and ingredients.