

# 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 products<sup>1</sup>, the Commission shall make available a catalogue of all nanomaterials<sup>2</sup> 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 persons<sup>3</sup> to the European Commission<sup>4</sup>** through the Cosmetic Products Notification Portal (CPNP)<sup>5</sup>. 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 database<sup>6</sup> 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.**

<sup>1</sup> [OJ L 342, 22.12.2009, p. 59.](#)

<sup>2</sup> 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".

<sup>3</sup> 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".

<sup>4</sup> 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)).

<sup>5</sup> 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](http://ec.europa.eu/growth/sectors/cosmetics/cpnp/index_en.htm).

<sup>6</sup> CosIng is the European Commission database for information on cosmetic substances and ingredients.

# Colorants

	Name <sup>7</sup>	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

<sup>7</sup> 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

		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 <sup>8</sup>	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	

<sup>8</sup> 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).

	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

	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

	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

	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 products<sup>9</sup> (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 Commission<sup>10</sup> through the **Cosmetic Products Notification Portal (CPNP)**<sup>11</sup> by the **responsible person**<sup>12</sup>, 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 nanomaterials<sup>13</sup>.

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

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<sup>9</sup> [OJ L 342, 22.12.2009, p. 59.](#)

<sup>10</sup> 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)).

<sup>11</sup> 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](http://ec.europa.eu/growth/sectors/cosmetics/cpnp/index_en.htm).

<sup>12</sup> 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".

<sup>13</sup> 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 database<sup>14</sup> 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.

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<sup>14</sup> CosIng is the European Commission database for information on cosmetic substances and ingredients.