

Ingredient	Function	Present in	Health Concerns
ALUMINUM ZIRCONIUM and OTHER ALUMINUM COMPOUNDS ①-⑨	Used to control sweat and odor in the underarms by slowing down the production of sweat.	Antiperspirants.	Banned by EU. Linked to the development of Alzheimer's Disease; may be linked to breast cancer; probable neurotoxin; possible nervous system, respiratory, and developmental toxin.
? BENZYL ACETATE ①	Solvent; hidden within "fragrance."	Many cosmetics and personal care products, read labels.	Linked to pancreatic cancer; easily absorbs into skin causing quick systemic effects; animal studies show hyperemia of the lungs; possible gastrointestinal, liver, and respiratory toxicant; possible neurotoxin
BENZALKONIUM CHLORIDE and BENZETHONIUM CHLORIDE ⑥	Antimicrobial agent, deodorant, preservative, biocide	Moisturizer, sunscreen, facial cleanser, acne treatment, pain relief.	Restricted in Japan and Canada. Immune system toxicant; may trigger asthma; possible organ system toxicant; animal studies show endocrine disruption and brain, nervous system, respiratory and blood effects; possible carcinogen.
BRONOPOL ⑧-①①	Preservative	Moisturizer, body wash, facial cleanser, makeup remover, anti-aging products.	Restricted in Canada. Immune system toxicant; lung and skin toxicant; animal studies show endocrine disruption and gastrointestinal, brain and nervous system effects; irritant.
? BUTYL ACETATE ①-③	Solvent in polishes and treatments, prevents chipping	Nail polish and nail treatments	Repeated exposure causes skin dryness and cracking; vapors may induce drowsiness or dizziness; flammable.
BUTYLATED HYDROXYTOLUENE (BHT)/ BUTYLATED HYDROXYANISOLE (BHA) ⑤-①①	Anti-Oxidant; slows down the rate at which product ingredients change in color.	Many cosmetics and personal care products, read labels.	Banned by EU. Immune system toxicant; endocrine disruptor; probable human carcinogen; animal studies show brain, liver, neurotoxin, reproductive and respiratory toxicant.
ETHOXYLATED INGREDIENTS: CETEARETH/ PEG COMPOUNDS ⑥-⑧	Surfactant, emulsifying or cleansing agent, penetration enhancer.	Many cosmetics and personal care products, read labels.	Animal studies show brain, nervous system and sense organ effects; irritant; reproductive and skin toxin, alters skin structure, allowing other chemicals to penetrate deep into the skin and increasing the amounts of other chemicals that reach the bloodstream; may contain harmful impurities.

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COAL TAR ⑦-①①	Controls itching and eczema, softens and promotes the dissolution of hard, scaly, rough skin, also used in hair dyes.	Shampoo and Hair Dye.	Immune system toxicant; endocrine disruptor; probable human carcinogen; animal studies show brain, liver, neurotoxin, reproductive and respiratory toxicant.
COCAMIDE DEA/ LAURAMIDE DEA ②-⑥	Used as foaming agents in shampoos and bath products, and as emulsifying agents in cosmetics; foaming and cleansing agents for “mouth feel.”	Many cosmetics and personal care products, read labels	Human immune system toxicant; forms carcinogenic nitrosamine compounds if mixed with nitrosating agents; animal studies show sense organ effects and skin irritation; may contain harmful impurities.
DIETHANOLAMINE (DEA) ⑦	pH adjuster	Sunscreen, moisturizer, foundation, hair color.	Skin and immune system toxicant; possible carcinogen; irritant; animal studies show endocrine disruption and neuro developmental, brain and nervous system effects; may trigger asthma.
ETHYL ACETATE ④	Solvent	Nail polish products, mascara, tooth whitening, perfume.	Probable neurotoxin; possible nervous system toxin; possible carcinogen; irritant; highly flammable
FORMALDEHYDE ①①	Disinfectant, germicide, fungicide, preservative	Deodorant, nail polish, soap, shampoo, shaving cream.	Restricted in Canada. Banned by EU. Immune system, repertory, hematological, and skin toxicant; probable carcinogen and cardiovascular toxicant; can damage DNA; may trigger asthma; animal studies show sense organ, brain, and nervous system effects; possible human development toxicant.
FORMALDEHYDE- RELEASING PRESERVATIVES (QUATERNIUM-15 ⑥ DMDM HYDANTOIN ⑦-⑧ DIAZOLIDINYL UREA ⑤ AND IMIDAZOLIDINYL UREA ⑤ DEA, MEA, TEA)	Anti-microbial preservative	Many cosmetics and personal care products, read labels	Forms nitrosamines when in the presence of amines such as MEA, DEA and TEA; probable immune system, blood, cardiovascular and skin toxicant; possible carcinogen; animal studies show endocrine disruption, nervous system and organ system effects; may contain harmful impurities.
FRAGRANCE (PARFUM) ⑧	Deodorant, masking, perfuming	Many cosmetics and personal care products, read labels	Immune system toxicant; possible neurotoxin; can contain between 10 and 300 different chemicals, many of which have never been tested for safety; see phthalates. Labeling can be confusing. If uncertain, check with manufacture

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HYDROQUINONE ① ①	Antioxidant, fragrance ingredient, skin bleaching agent, hair colorant.	Skin fading/lightener, facial moisturizer, anti-aging, sunscreen, hair color, facial cleanser and moisturizer.	Restricted in Canada. Immune system and respiratory toxicant; probable neurotoxin; possible carcinogen; irritant; animal studies show endocrine disruption.
IODOPROPYNYL BUTYLCARBAMATE ④-⑥	Preservative	Many cosmetics and personal care products, read labels.	Human toxicant; possible liver immune system toxin; allergenic.
LEAD and LEAD COMPOUNDS ① ①	Colorant	Hair dye, hair products. Traces found in some red lipstick.	Restricted in Canada. Probable carcinogen; developmental, respiratory, gastrointestinal and reproductive toxicant; reduced fertility; animal studies show metabolic, brain and nervous system effects; suspected nano-scale ingredients with potential to absorb into the skin
METHYLISOTHIAZOLINONE (MI/MCI) and METHYLCHLOROISOTHIAZOLINONE ⑥	Preservative	Many cosmetics and personal care products, read labels.	Restricted in Canada and Japan. Immune system toxicant; animal studies show restricted growth of the axons and dendrites of immature nerves, neurotoxicity and positive mutation results; can lead to a malfunction in the way neurons communicate with each other; especially detrimental to a developing nervous system.
OXYBENZONE(BENZPENON E-3) ⑧	Sunscreen Agent; Ultraviolet Light Absorber, UV Absorber; UV Filter.	Sunscreens and makeup	Associated with photoallergic reactions and immunotoxicity. Probable carcinogen and endocrine disrupter; Enhanced skin absorption and bioaccumulates to dangerous levels; biochemical cellular changes. Developmental and reproductive toxicity.
PARABENS (METHYL ⑤, ETHYL ④, PROPYL ⑤ AND BUTYL ⑤)	Preservative and anti-bacterial agent.	Many cosmetics and personal care products, read labels.	May alter hormone levels, possibly increasing risk for certain types of cancer, impaired fertility, or alteration of the development of a fetus or young child; studies have found parabens in breast tumors; probable skin toxicant; animal studies show brain and nervous system effects.
?PETROLATUM (PETROLEUM) ②	Forms barrier on skin; makes lipsticks shine and creams smoother; inexpensive skin softener.	Many cosmetics and personal care products, read labels.	Banned by EU (unless the source can be proven and the product shown to be pure.) May be contaminated through processing with impurities which are linked to cancer or other significant health problems.

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PHTHALATES (DIBUTYL PHTHALATES) ① ①	Fragrance ingredient, plasticizer, solvent	Many cosmetics and personal care products, read labels.	Banned in EU. Immune system toxicant; developmental and reproductive toxin; respiratory toxicant; probable neurotoxin; possible carcinogen and endocrine disruptor; bio-accumulative in wildlife.
P-PHENYLENEDIAMINE (PPD) ① ①	Hair colorant	Hair dye, shampoo, hair spray	Restricted in Canada. Immune system and respiratory toxicant; probable neurotoxin; eczema; possible nervous system, skin, kidney and liver toxicant; irritant; may trigger asthma and gastritis; shown to cause cancer in animal studies.
?PROPYLENE GLYCOL ③	Solvent, penetration enhancer, conditions skin, controls viscosity and keeps products from melting in high or freezing when it is cold.	Many cosmetics and personal care products, read labels.	Alters skin structure, allowing other chemicals to penetrate deep into the skin and increasing the amounts of other chemicals that reach the bloodstream; animal studies show reproductive effects, positive mutation results, brain and nervous system effects and endocrine disruption.
SODIUM LAURETH SULFATE ④	Surfactant, penetration enhancer	Many cosmetics and personal care products, read labels.	Alters skin structure, allowing other chemicals to penetrate deep into the skin, increasing the amounts of other chemicals that reach the bloodstream; Irritant; animal studies show sense organ effects.
?TALC ② Note: Talc is <i>generally</i> no longer used in baby powder (check labels), where it held a primary concern. To be avoided if there is potential for inhalation	Absorbs moisture, anti-caking agent, bulking agent.	Blush, powder, eye shadow, baby powder, deodorant.	Carcinogen; link between talcum powder and ovarian cancer; talc particles are similar to asbestos particles and data suggests that it can cause tumors in the lungs; probable respiratory toxin
TOLUENE ① ①	Antioxidant, solvent to improve adhesion and gloss	Nail polish and hair dye	Liver toxin; probable developmental, nervous system and respiratory toxin; possible cardiovascular, musculoskeletal, renal and sense organ toxin; possible carcinogen and reproductive toxin; irritant; highly flammable
TRICLOSAN ⑦	Anti-bacterial agent, deodorant, preservative, biocide. Reduces and controls bacterial contamination on the hands and on treated products.	Antibacterial soaps, deodorants, toothpastes, mouthwashes, face wash and cleaning supplies.	Restricted in Japan and Canada. Probable endocrine disrupter and carcinogen; easily bio-accumulates to dangerous levels; irritant; animal studies show reproductive and other broad systematic effects; potentially contaminated with impurities linked to cancer and other significant health problems; studies have shown it can actually induce cell death when used in mouth washes.

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<p>TREITHANOLAMINE (TEA) 5</p>	<p>Fragrance ingredient, pH adjuster, surfactant.</p>	<p>Hand & body lotion, shaving creams, soap, shampoo, bath powders and moisturizer.</p>	<p>Immune system toxicant; possible carcinogen; animal studies show endocrine disruption; may trigger asthma; forms carcinogenic nitrosamine compounds if mixed with nitrosating agents</p>
<p>1,4 DIOXANE 1 0</p>	<p>Penetration enhancer</p>	<p>Body lotion, moisturizers, sunless tanning products, baby soap, anti-aging products</p>	<p>EPA classifies it as a probable carcinogen found in 46 of 100 personal care products marketed as organic or natural, and the National Toxicology Program considers it a known animal carcinogen. Acute (short-term) inhalation exposure to high levels of 1,4 dioxane has caused vertigo, drowsiness, headache, anorexia and irritation of the eyes, nose, throat and lungs of humans. It may also irritate the skin</p>