

Dirty Dozen Final Four

Chemical: *Butylated Hydroxytoluene*

Function: Anti-oxidant; slows down the rate at which product ingredients change in color

Present in: Lip Makeup, Moisturizer, Eye Makeup, Anti-Aging Treatment, Foundation, Fragrance, Bar Soap, Shaving Products, Antiperspirant/Deodorant, Concealer, Sunscreen, Facial Cleanser, Body Wash, Blush, Shampoo, Conditioner, Acne Treatment, Body Lotion/Oil, Powder, Makeup Remover, Depilatory Cream, Toothpaste, Styling Product, Exfoliator, Nail Treatments

Health Concern: Eye and skin irritant

Chemical: *Ethyl Acetate*

Function: Solvent

Present in: Nail polish products, mascara, tooth whitening, perfume

Health Concern: Eye and skin irritant

Chemical: *Toluene*

Function: Solvent to improve adhesion and gloss

Present in: Mainly nail polish and hair dye

Health Concern: Potentially cancer causing, pregnancy concern, liver damage, irritating to the skin and respiratory tract; harmful by inhalation.

Chemical: *Triethanolamine*

Function: A coating ingredient for fresh fruits and widely used as a dispersing ingredient in hand and body lotions, shaving cream, soaps; shampoos and bath powders.

Present in: Hand and body lotions, shaving creams, soaps, shampoos and bath powders

Health Concern: May form carcinogenic compounds called nitrosamines on the skin or in the body after absorption (compounds formed when chemicals containing nitrites react with amine, natural chemicals found in food and the body) -- among the most potent cancer-causing agents found. Thought to possibly cause cancer in humans, based on limited data.

We believe that education about chemicals in our world is critical to maintaining a healthy lifestyle. In our opinion the "Dirty Dozen" should be avoided at all cost. What you don't know can hurt you as well, so be constantly vigilant in what you put in and on your body!

Your Pets and Chemicals

You need to take special precautions with chemicals when it comes to your pets. Pets are as susceptible to the Dirty Dozen as you are. Get to know your pet's skin and never assume that it is the same as yours. Typically, the pH of a dog's skin is 7.0 where humans are from 6.0-6.5. You may not think it is a big difference, but it is. That is why you should never use shampoo, conditioners, lotions or sprays that are formulated for people on your pets.

Some chemicals may be deadly. The National Institutes of Health notes in their comments about SLS, that above 15% solution "can be fatal" to small animals. Some pet shampoos are above 18% concentration of SLS.

Don't forget that the laundry detergent you wash your pet's bedding in. It leaves residual SLS on it and may cause that night time itching and scratching.

Finally, those pesticides you place on your pet are controversial. What we know for sure is that your pet becomes the vehicle for you to absorb the same pesticides. Although they are not in our "Dirty Dozen," don't forget that if those pesticides on your pet, they are on you too.



For more skin health information go to our Website to both the InfoCentral Tab and to our Newsletter



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Chemical-Free Skin Health™

Killer Chemicals?

Could Chemicals In Our Everyday Products Be Doing More Harm Than Good?



"Protecting You and Your Family"

The “Dirty Dozen” Chemicals in Everyday Products

Marin County California has experienced the highest Cancer rates in America. They published this list of chemicals to educate people about the potential for cumulative toxic exposure to multiple chemicals in everyday products.

At Keys, we believe that over 50% of all skin disorders for people and pets are misdiagnosed and are actually caused by chemicals in everyday products. In fact, over 95% of all skin and pet care shampoos, bath gels, conditioners, laundry detergents and cosmetics contain one or more of these chemicals.

At Keys we are chemical-free and therapeutic. We believe that education is the best tool and we provide this list for your reference. Take this brochure with you to use when shopping for new products for you, your family and your pet.

Some very well known brands have over 50 chemicals in their formulation. These are just 12 of those chemicals!

Here is a list of the Marin “Dirty Dozen” Chemicals. Their function, examples of some products types they are present in and the health concerns for each follow.

Sodium Laureth/Sodium Laurel Sulfate

Parabens

(methyl, ethyl, propyl and butylparabens)

Propylene Glycol

Phthalates

Petrolatum

Cocamide DEA/Lauramide DEA

Diazolidinyl Urea

Butyl Acetate

Butylated Hydroxytoluene

Ethyl Acetate

Toluene

Triethanolamine

Marin’s “Dirty Dozen”

Check your products at home and before you buy for these chemicals!

Chemical: Sodium Laureth/Sodium Laurel Sulfate

Function: Penetration enhancer

Present in: Shampoo/conditioner, bar soap, body wash, face cleanser, liquid hand soap, acne treatment, hair dye, mascara, shaving products, moisturizer, bar soap, toothpaste, sunscreen, makeup remover, perfume, cologne

Health Concern: Alters skin structure, allowing other chemicals to penetrate deep into the skin, increasing the amounts of other chemicals that reach the bloodstream.

Chemical: Parabens (methyl, ethyl, propyl and butylparabens)

Function: Parabens are a group of chemicals widely used as preservatives in cosmetics to inhibit bacteria, yeast and mold growth and are antibacterial agents in antibacterial toothpaste.

Present in: Shampoos, conditioners, hair styling gels, nail creams, foundations, facial masks, skin creams, and deodorants, baby lotions, and other personal care products for children

Health Concern: May alter hormone levels, possibly increasing risks for certain types of cancer, impaired fertility, or alteration of the development of a fetus or young child. May cause skin irritation, rash or dermatitis. or allergic skin reactions.

Chemical: Propylene Glycol

Function: Penetration enhancer; keeps products from melting in high heat or freezing when it is cold

Present in: Shampoo/conditioner, bar soap, body wash, face cleanser, liquid hand soap, acne treatment, hair dye, shaving products, moisturizer, makeup remover, toothpaste, sunscreen, perfume, cologne, deodorant, toner/astringent, foundation, bronzer powder, nail polish, lip products, eye shadow/pencil, mascara

Health Concern: Alters skin structure, allowing other chemicals to penetrate deep into the skin, increasing the amounts of other chemicals that reach the bloodstream; skin irritant, causes allergic reactions

Chemical: Phthalates

Function: A family of industrial chemicals that are used as solvents in cosmetics

Present in: Nail polish, deodorant, fragrance, hair spray, hair gel/mousse, lotions

Health Concern: Phthalates can damage the liver, kidneys, lungs and in particular the developing male reproductive tract: Permanent birth defects in the male reproductive system.

Chemical: Petrolatum

Function: Lubricant to make lipsticks shine and creams smoother; helps to soften skin in the same way as other products but much cheaper

Present in: Cold creams, lotions, wax depilatories, eyebrow pencils, eye shadows, liquid powders, lipsticks, protective creams, baby creams

Health Concern: May be contaminated with impurities, linked to cancer or other significant health problems; causes allergic reactions.

Chemical: Cocamide DEA/Lauramide DEA

Function: Used as foaming agents in shampoos and bath products, and as emulsifying agents in cosmetics; foaming and cleansing agent for “mouth feel”.

Present in: Shampoo, Body Wash/Cleansers, Bath Oils, Facial Cleanser, Liquid Hand Soap, Bar Soap, Acne Treatment, Baby Wash, Shaving Products, Body Scrubs, Foot Odor/Cream Treatment, Deodorant, Moisturizer, Hair Dye/Spray

Health Concern: May be contaminated with impurities linked to cancer or other significant health problem. May form carcinogenic compounds called nitrosamines on the skin or in the body after absorption. Insufficient toxicity data to determine safety in products that will be inhaled, where chemicals become airborne and can be inhaled.

Chemical: Diazolidinyl Urea

Function: Formaldehyde-releasing, anti-microbial preservative

Present in: Moisturizer, Styling Products, Shampoo/conditioner, Hair Spray/Dyes, Anti-Aging Treatment, Facial Cleanser, Sunscreen, Facial Moisturizer, Foundation, Eye Makeup, Acne Treatment, Mascara, Body Wash/Cleansers, Deodorant, Concealer, Exfoliator, Powder, Body Scrubs, Bath Oils/Salts, Eye Contact Care, Lip Makeup, Shaving Products, After Sun Product, Douche/Personal Cleanser, Makeup Remover Depilatory Cream/Hair Remover, Liquid Hand Soap, Nail Treatments, Pain Relief Rub/Ointment, Fragrance

Health Concern: May be contaminated with impurities linked to cancer or other significant health problems.

Chemical: Butyl Acetate

Function: Solvent in polishes and treatments, prevents chipping

Present in: Nail polish and nail treatments like strengtheners, hardeners, top/base coats

Health Concerns: Repeated exposure causes skin dryness and cracking; vapors may induce drowsiness or dizziness.