



What is 1, 4 - Dioxane?

1, 4 – dioxane has been identified as a suspected cancer-causing agent by the scientific community. 1,4 – dioxane has been linked with cancers of the nasal cavity, liver and gallbladder tumors in animal studies. It is commonly found in personal care products, cosmetics and household products.

Where is 1,4 - Dioxane Found?

1,4-dioxane can be an unintentional contaminate formed during the manufacturing of specific emulsifying agents such as sodium laureth sulfate, sodium alkyl ether sulfate, sodium lauryl ether sulfate, laureth-6, laureth-7, and polyethylene glycols. 1,4 - dioxane can be found in consumer products that produce suds or foaming bubbles like **toothpaste, shampoo, liquid soap and bubble bath** and has been also found in **deodorant, hair dyes, cleaning products, detergents and fragrances**.

For a safer option, look for products labels that state: “sulfate free”, “PEG free” and that do not contain chemical ingredients with the affixes , xynol, cetareth, or oleth

Why is 1,4 - Dioxane Concerning?

1,4 - dioxane is considered **possibly carcinogenic to humans** by the International Agency For Research on Cancer (IARC) and **reasonably anticipated to be a human carcinogen** by the National Toxicology Program (NTP).

In the United States, companies are not required to list 1, 4 – dioxane on ingredient labels because it is an unintended by-product of the manufacturing process.

Where can I find more information about 1,4 - Dioxane?

To learn more about this hazardous chemical, please visit the following organization’s websites:

Scientific Government Resources:

- Food and Drug Administration (FDA):1,4-Dioxane in Cosmetics: A Manufacturing Byproduct
- Environmental Protection Agency (EPA):Technical Fact Sheet –1,4-Dioxane

Consumer Support Information:

- Environmental Working Group: 1,4-Dioxane
- Campaign for Safe Cosmetics: 1,4 - Dioxane
- Made Safe: #ChemicalCallout: 1,4-Dioxane

NOTE: All links for additional information are trusted sources. If you would not to know more , or have questions, please contact us at info@CENSWPA.org.