

# A Survey On Use Of Chemicals In Everyday Life

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**Abstract-** In this modern 21st century, chemicals have a very important place in our everyday lives. The usage of chemicals provide us humans with the basic necessities like food, clothing, power, health care, personal care, etc. Especially the extensive usage of chemicals in personal care products is quite alarming, but we humans keep a blind across it. Thus, being the students of engineering, we took matter in our own hands carried out a survey to observe and record the usage of such products by the people around us living normal lives.

## I. INTRODUCTION

As soon as we get up in the morning, we expose our body to the chemicals in the form of personal care products. We find it rather as a waste of time to take a look at the chemicals which we expose our body to, blindly believing in the words of manufacturers. In the long run it could be fatal for us. After all it is our own body on the line. Most of the chemicals we use have negligible effect but some of them can cause severe damage to our body and even lead to terminal disease like cancer.

In this busy world, where extensive corruption and insincerity exists in the rules and regulation sector, many products are released in the market which are dangerous and by the time steps are taken the damage is long done. Even many so called organic personal care product companies have been found to be using harmful chemicals in their products.

## II. METHOD

We carried out a survey that consisted questions regarding the daily use products used by our participants and also regarding their awareness towards the above topic. It was an online survey carried out via google form. The google form was sent to more than 75 participants across Pune district of Maharashtra state of India. Most of these were teenage college students whose age lie between 18 – 24 years. The students came from all over India and even foreign nation like Nepal. The sample size has extensive diversity in terms of gender and financial status. Online google form was circulated via WhatsApp, E-mail to participants. The questions asked in the survey were based on the chemical composition of the daily use personal care products, and the level of awareness among people regarding the chemicals present in their products.

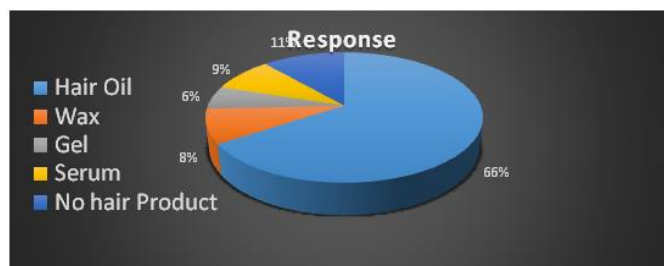
### 2.1. Questions asked in Survey

1. Mention the brand of Shampoo and conditioner you use.
2. Write the percentage presence of chemicals in your Shampoo and Conditioner.
3. What type of hair product do you use after bath?(oil/gel/spray/pomade/wax/etc)
4. Mention the brand and version of the hair oil.
5. Mention the face wash you use. Also write its primary chemical contents.
6. Have you faced any allergy, irritation, burning, etc. due to any face products you use?
7. What type of Toothpaste do you use (Herbal/Chemical)? Write the chemical contents of your Toothpaste? If its herbal, then write primary herbal content too.
8. Mention the brand and version of body deodorant, perfume you use. Write the chemical composition of perfume, deo?
9. Do you take any health supplements?(eg. Vitamin tablets, protein etc)
10. Have you faced any side effect of any of the body/face/hair/mouth product you used.
11. Are you aware of the harmful effects on human body due to the chemicals present in regularly used products?

### 2.2 .RESPONSES

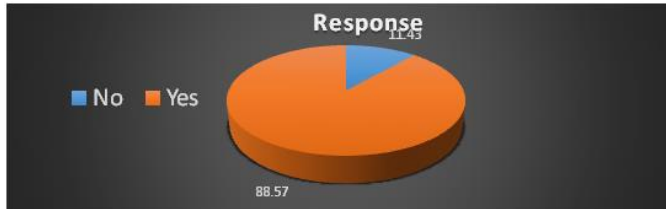
1. What type of hair product do you use after bath?(oil/gel/spray/pomade/wax/etc.)

Sr.No.	Response	Percentage
1	Hair Oil	65.71
2	Wax	8.57
3	Gel	5.71
4	Serum	8.57
5	No hair product	11.44



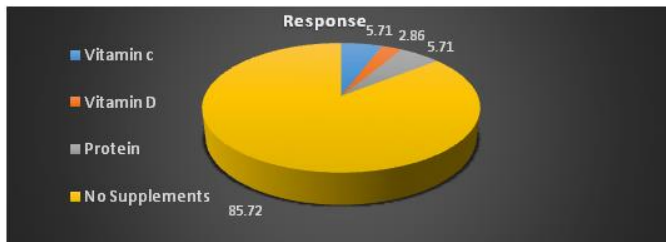
2. Have you faced any allergy, irritation, burning, etc. due to any face products you use?

Sr.No.	Response	Percentage
1	Yes	11.43
2	No	88.57



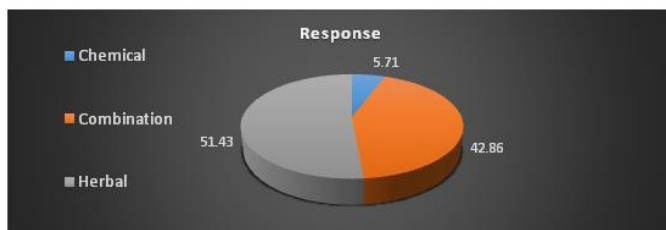
3. Do you take any health supplements? (eg. Vitamin tablets, protein etc.)

Sr.No.	Response	Percentage
1	Vitamin C	5.71
2	Vitamin D	2.86
3	Protein Powder	5.71
4	No Supplements	85.72



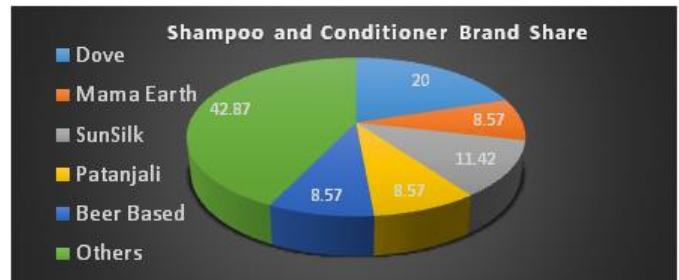
4. What type of Personal care products do you prefer?

Sr.No.	Response	Percentage
1	Herbal	51.43
2	Chemical	5.71
3	Combination of both Herbal and Chemical	42.86



5. Brand of personal care products currently in use by our survey.

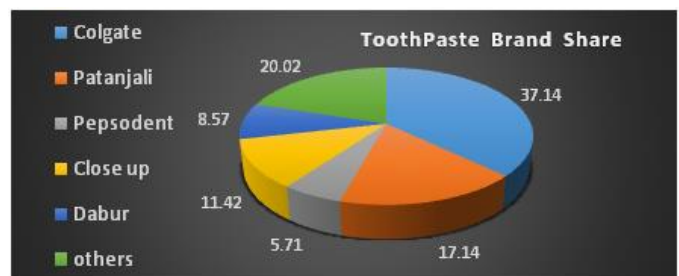
Brand	Shampoo & Conditioner
Dove	20
Mama Earth	8.57
Sunsilk	11.42
Patanjali	8.57
Beer based	8.57
others	42.87



Brand	Hair oil
Parachute	42.85
Bajaj Almond	22.84
Others	22.89
No Oil	11.42



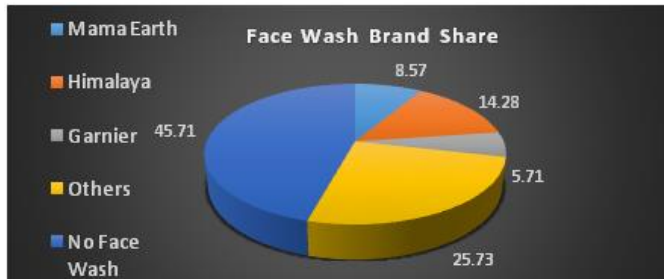
Brand	ToothPaste
Colgate	37.14
Patanjali	17.14
Pepsodent	5.71
Close Up	11.42
Dabur	8.57
Others	20.02



Brand	Face Wash
Mama Earth	8.57
Himalaya	14.28
Garnier	5.71
others	25.73
No face wash	45.71

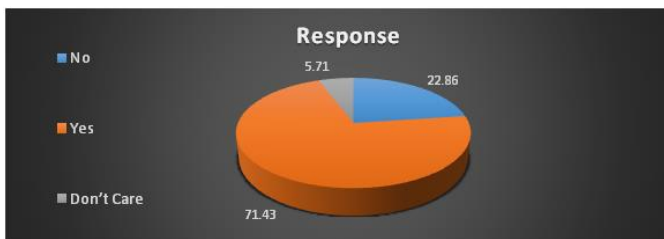
## REFERENCES

- [1] <https://skincraft.com/blog/articles/toxic-chemicals-in-cosmetics>
- [2] <https://www.google.com/amp/s/www.nytimes.com/2023/02/15/well/live/personal-care-products-chemicals.amp.html>



6. Are you aware of the harmful effects on human body due to the chemicals present in regularly used products?

Sr.No.	Response	Percentage
1	No	22.86
2	Yes	71.43
3	Don't care	5.71



## III. CONCLUSION

After the conclusion of our survey , we did analysis , recorded and observed the data we collected and found out that a large number of surveyees are well aware about chemicals like methylene glycol, quaternium 15, polyfluoroalkyl (PFAS), phthalates, alcohol, formaldehyde etc. that can cause damage to their health. With the help of our survey we also made the people who were unaware about such chemicals aware.

## IV. ACKNOWLEDGEMENT

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