

Chemicals in Cosmetics

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Problem Statement

There are ingredients and chemicals that are found in cosmetic products that can be harmful and can cause long-term health issues such as cancer and allergies. This can affect all people of all ages across the world.



How can we help consumers make better choices that
will benefit their health?



Dataset



**California Safe
Cosmetics Program
(CSCP) in the
California
Department of
Public Health (CDPH)**

1

Brand Name

2

Product Name and
Cosmetic Categories

3

Chemical Name

4

Dates Reported and Discontinued
Date

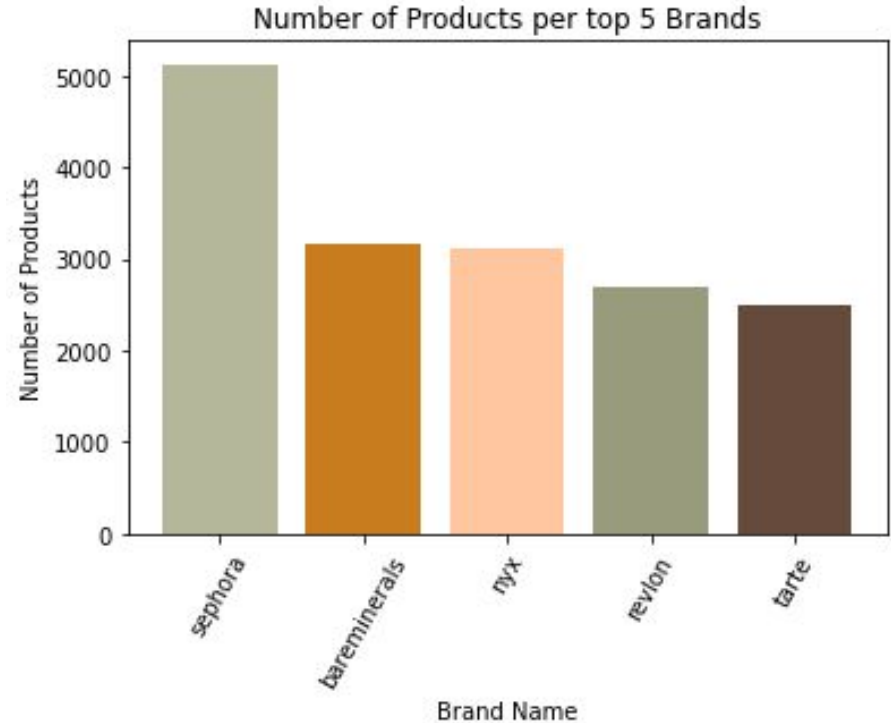
Methods/Functions

read_file	get_stats	bar_chart	pie_chart
Reads in data from a file	Gets data from a specific column, used Counter() Gets the top 5 counts, used most_common()	Creates a bar chart using the data from the 5 top counts of a column	Creates a pie chart using the data from the 5 top counts of a column
Parameters: filename	Parameters: data, column (int), top (int)	Parameters: name (2D list), amount (2D list)	Parameters: name (2D list), amount (2D list)

Graph 1



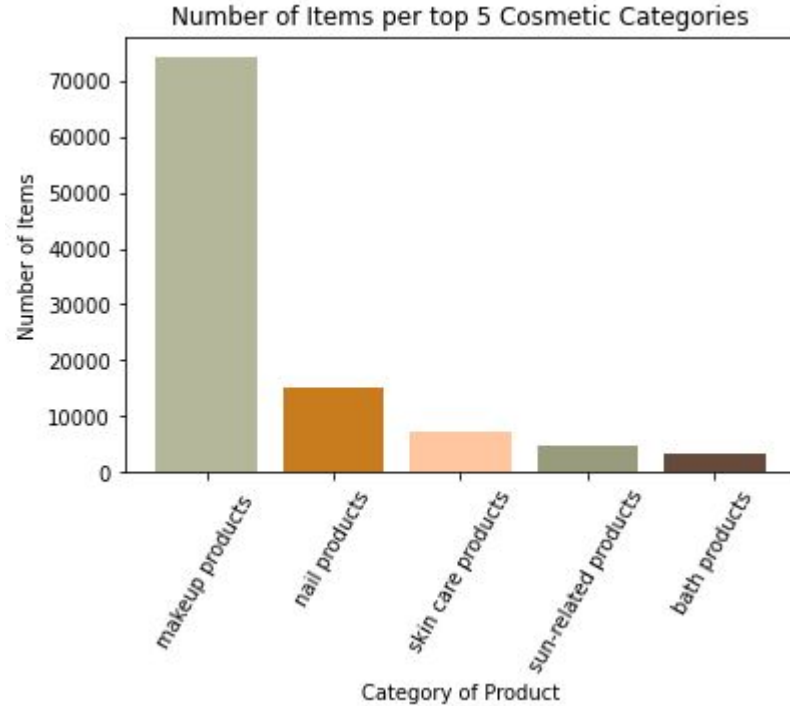
Sephora, NYX, bareMinerals, Revlon, and Tarte are the brands to especially look out for when making cosmetic purchases



Graph 2

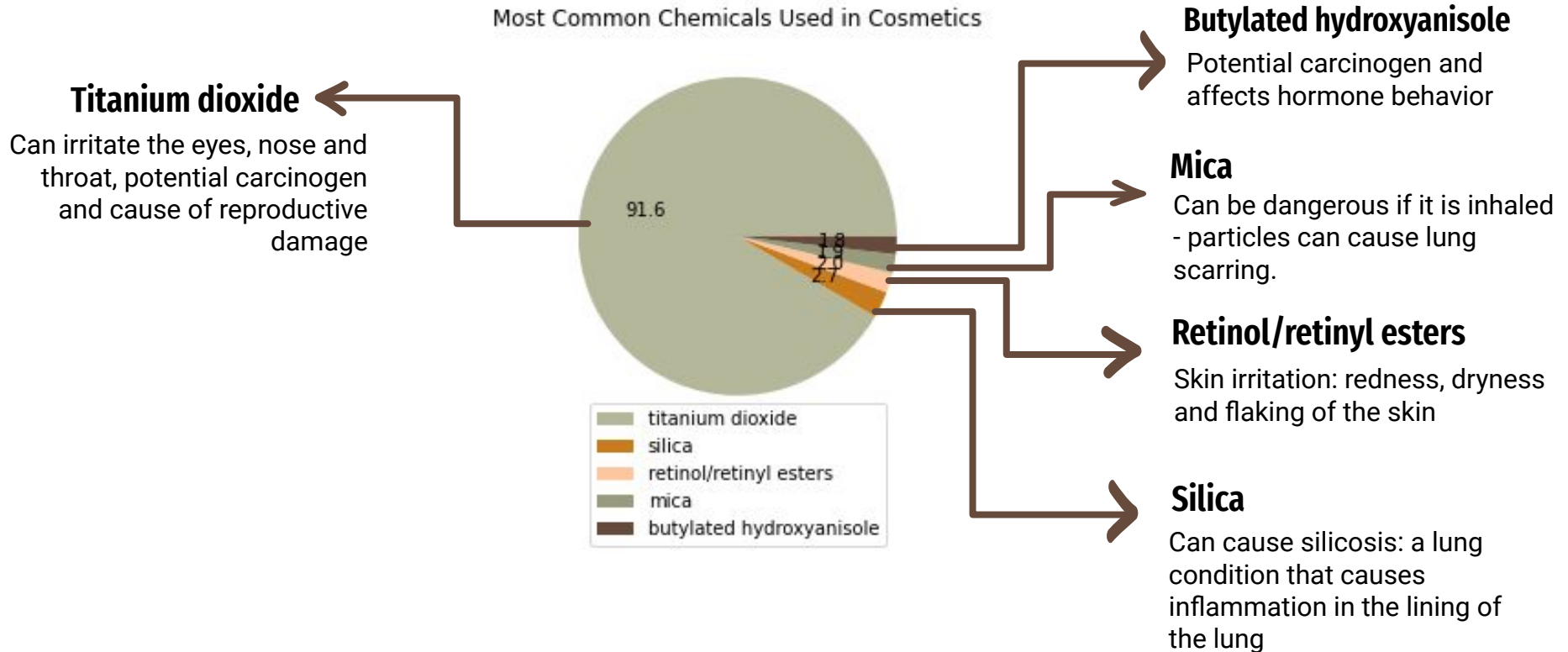
Makeup products
make up 66.5% of
products on the
list

followed far behind by
nail products, skin
care products,
sun-related products,
and bath products



Graph 3

Most Common Chemicals Used in Cosmetics





Future Work



- Filter out chemicals proven to not be harmful in certain amounts approved by FDA
- Analyze the dataset again in the future
 - Examine possible significant changes
 - Compare it to laws and regulations



Conclusion



- It is crucial that consumers are aware of what they are putting onto and/or into their bodies, and this data is beneficial in that way



Works Cited



1. “Count Elements in a List with Collections.counter in Python.” Count Elements in a List with Collections.Counter in Python, <https://note.nkmk.me/en/python-collections-counter/>.
2. Pozo Ramos, Leodanis. “Python's Counter: The Pythonic Way to Count Objects.” Real Python, Real Python, 25 Jan. 2023, <https://realpython.com/python-counter/>.