

#### INTRODUCTION

- These data reflect information that has been reported to the California Safe Cosmetics Program (CSCP) in the California Department of Public Health (CDPH).
- The primary purpose of the CSCP is to collect information on hazardous and potentially hazardous ingredients in cosmetic products sold in California and to make this information available to the public.
- Companies with reportable ingredients in their products must submit information to the California Safe Cosmetics Program if the company:
  - Has annual aggregate sales of cosmetic products of one million dollars or more, and.
  - Has sold cosmetic products in California on or after January 1, 2007.

- Baby
- Bath
- Fragrances
- Hair care
- Hair coloring
- Makeup

### CATEGORIES

- Nail
- Personal care
- Shaving
- Skincare
- Sun related

#### CHEMICALS IN COSMETICS?

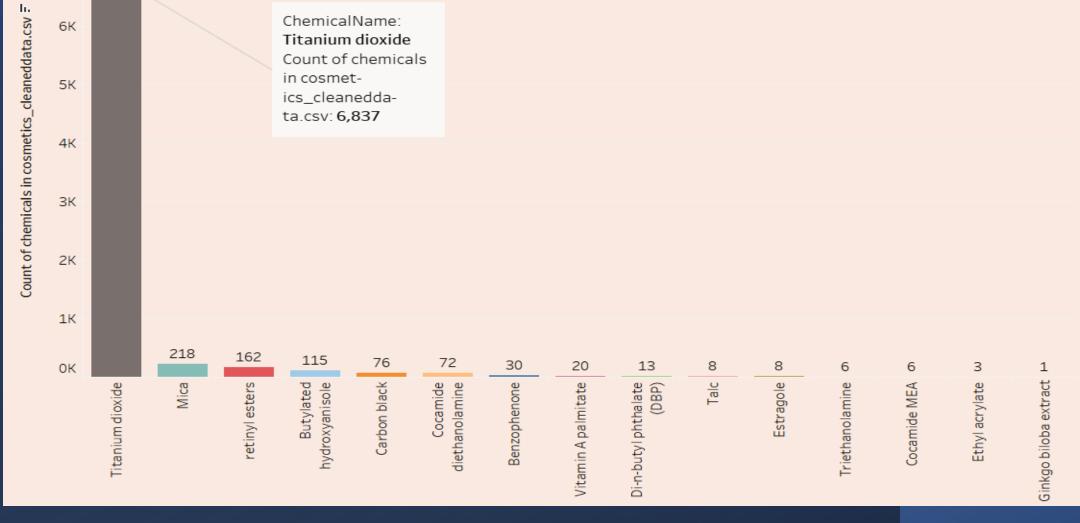
 People think which chemical it will be in cosmetics; how many it will be which product category or brand has more of them.

All of them are answered below.

 First lets start with which chemical is used most?



#### Which chemical found more in cosmetics? ChemicalName 7K 6,837 Count of chemicals in cosmetics\_cleaneddata.csv ₹ ChemicalName: 6K Titanium dioxide Count of chemicals in cosmet-5K ics\_cleaneddata.csv: 6,837 3К

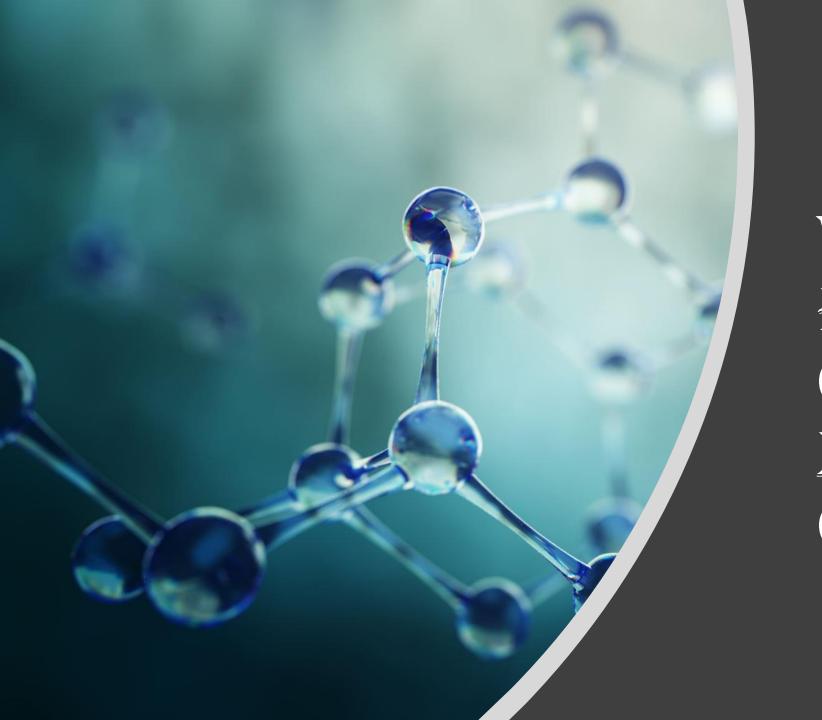




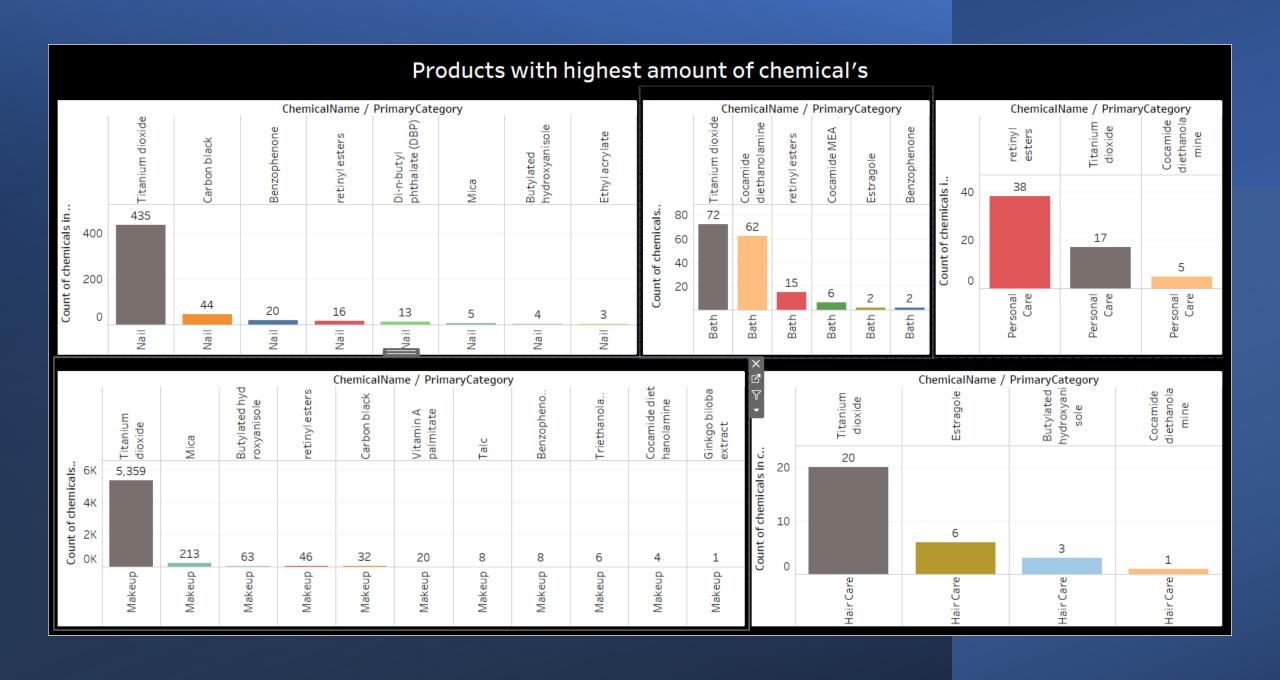
# MAKEUP OR BREAK UP?

# SHOULD YOUBE WORRIED?

- Many Chemicals used in personal care products are dangerous in high concentrations, high doses and industrial quantities.
- Some people also may suffer allergic reaction to small quantity which may be present in cosmetics as well.



WHICH
PRODUCT
CONTAINS
MORE
CHEMICAL?





IS MY SOMP A SOMP?

OR

IT IS A DRUG?

#### Brand's having which Chemicals in their Products



# ANALYSIS

- We have added the additional columns to our dataset to get more insights of the data, the consige......
- column was created using whether the particular chemical is consistent or not which means the chemical can cause cancer or not (0 - no and 1-yes).
- The another column is skin danger (0-5) means how the particular chemical is dangerous to skin. (0 is safe and 5 is most dangerous).
- Enough research were done to make these columns.



• The data shows which chemical is more dangerous to skin on the scale of 0 to 5.

• Being 0 low and 5 high.

 The Lollipop chart shows Estragole is most dangerous chemical for skin.

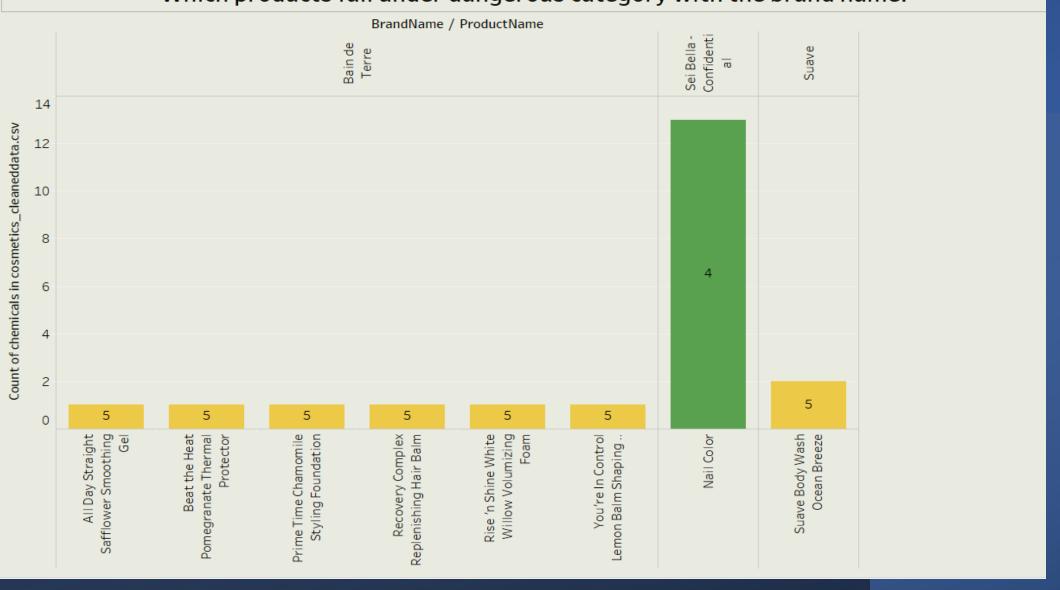
#### Skin vs Chemical





# BRANDS TO AVOID

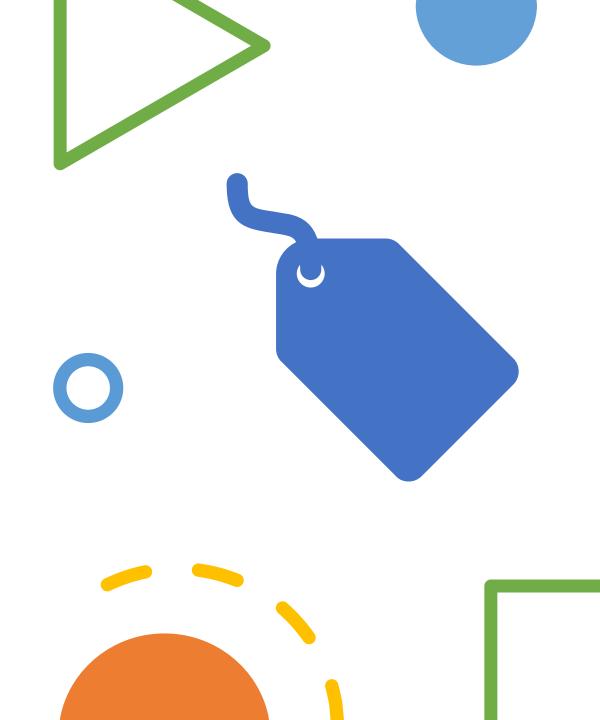
#### Which products fall under dangerous category with the brand name.



## CONTINUE...

 The bar graph shows the brand name and product name which has high level of effects on skin

 Bain de terre, Sei belle and Suave tops the list.



BRAND, CATEGORY CHEMICAL

 The following map shows which brand's product category has how many chemicals in it.

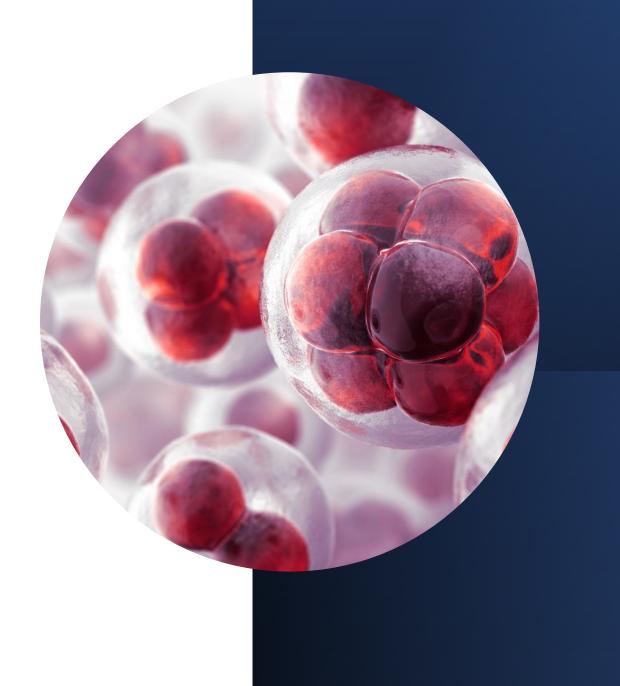
 As seen, Makeup tops the list with 1277 chemical in it of top brand Cover girl

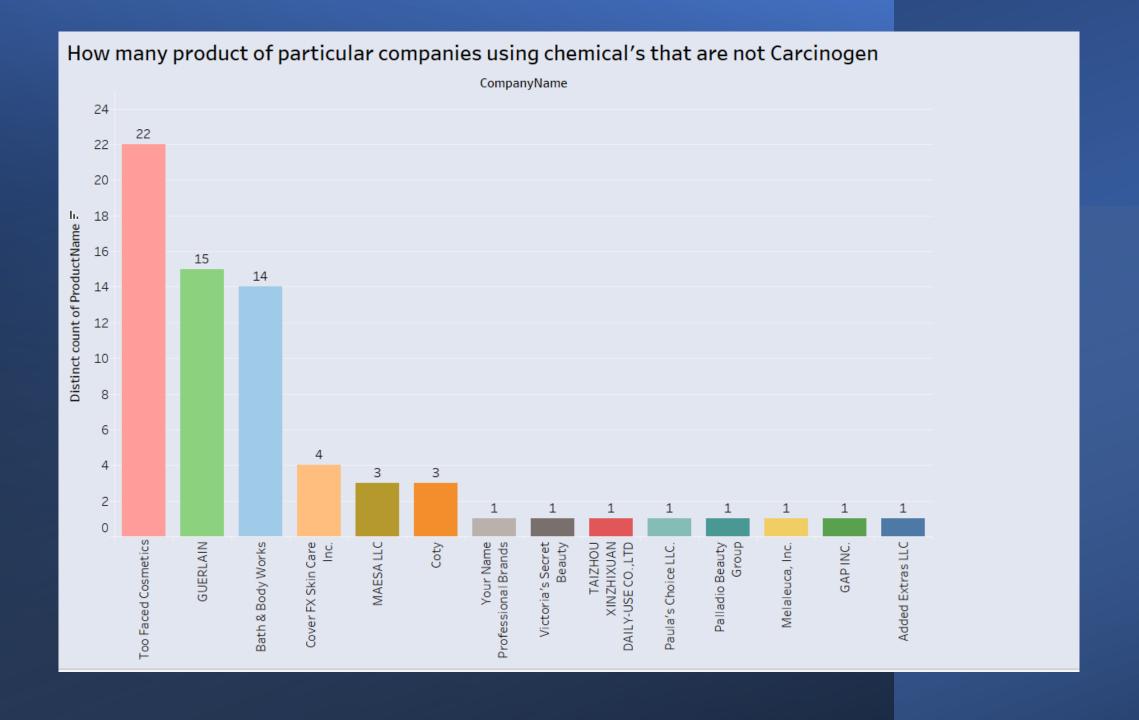
Makeup 1,277 CoverGirl	Makeup Makeup Makeup 377 333 272 Dolce & Gabbana No7 GUERLAI		218		Nail 163 CoverGirl					
						Nail Nail 70 46 Dolce &				
Makeup 598 Victoria's Secret Beauty  Makeup 437 Elizabeth Arden						Nail 40	Nail 40			
	Makeup 196 Cover FX	162 1 NARS N	Makeup 136	Make 106	up	NSI				
			Nicole Miller	Boots Botanio		Nail				
	Makeup 176 Bath & Body Works					Nail				
		Makeup								
		83				Hair Coloring 82		Hair	Skin Care 100	Skin
	Makeup 172 Max Factor	Makeup 69	Makeup			Wella	à		Bath & Body	
			Makeup			Hair H		air	body	
		68	Makeap	ancup						
	Makeup 168 Gucci	Makeup	Makeup	akeup						
			Makeup	akeup						
		Makeup	Makeup	akeup			Bath			

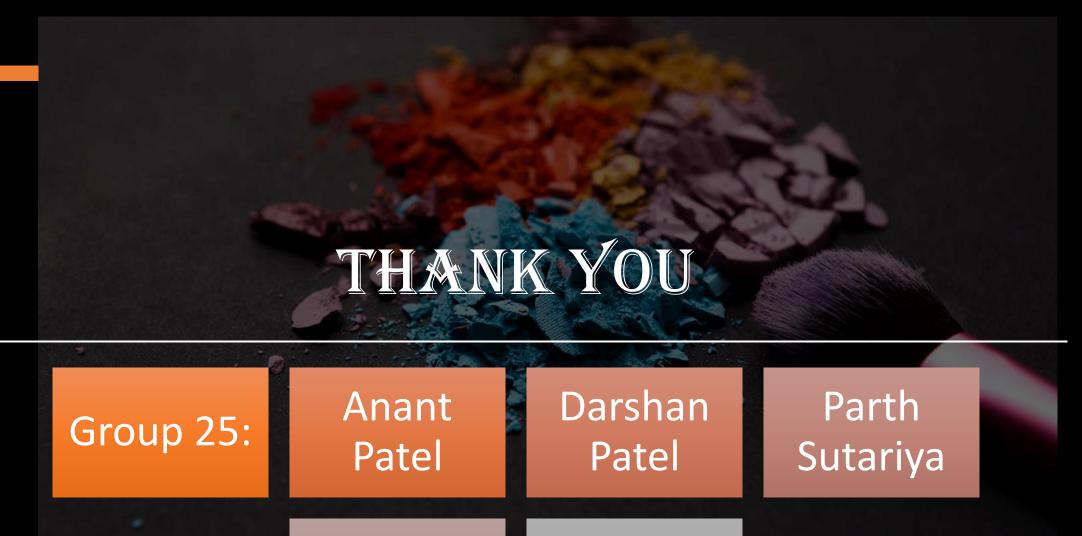
### CARCINOGENS

 A carcinogen is any substance, radionuclide, or radiation that promotes carcinogenesis, the formation of cancer.

 The data shows the brands which have products without carcinogens in it.







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