

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Kyra E. Pretre	
Project Title	35011
Harmless or Deadly? Is There Benzene in the Air?	
Harmess of Deadiy: 18 There Denzene in the Air;	\sim \sim
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Abstract (
Objectives/Goals The goals of this experiment were testing levels of deadly benzene in comm	Dullus and mining
awareness about products that could be affecting people's health.	biny used products and raising
Methods/Materials	
The products that were tested were oil-based paint, latex paint, best wax can	lles, cented candles, liquid
The products that were tested were oil-based paint, latex paint, best wax can wrench penetrating oil, fuel injector cleaner, and Weed B Gon weed willer. A Pump and three 12-sets of Uniphos Benzene Gas Detector Tubes were used to	to sample 200mL of fumes
from above the products.	
Results	
The fuel injector cleaner has the most benzene, an average of 67 parts per mi paint has almost as much, with an average of 50ppm. The haud wreach was	s third with an average of 14
ppm. All the other products and the control test, regular an, had opper of be	nzene. The hypothesis, that
the liquid wrench would have the most benzene, was correct.	
Conclusions/Discussion	ize their usage of these
People should be aware of amounts of benzene in nome product, and minimiproducts as much as possible. Perhaps benzene detection methods for home to be a state of the state of	use can be developed in the
future and the amount of benzene properly disclosed on the koels of product	s containing it.
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Summary Statement	
I tested the amount of benzene in commonly used products to alert people of	unknown dangers
I tested another people of a sed products to dere people of	unitio wir dungers.
Help Received	
Ion Science was very helpful by lending the testing pump and selling the test	ing tubes that were usually
used for businesses. My mom purchased all the materials I needed for my ex	xperiment.