

Breaking Down Vaping Devices -

How Parts Function and Cause Harm



Tank/Cartridge/Pod

Holds the e-liquid, nearly always contains nicotine. Nicotine harms the developing brain.

Pods

Often use nicotine salts (have added acid) to increase nicotine dose and reduce throat hit but may be more addictive.

E-liquid or E-Juice

Mix of chemicals and flavoring with nicotine.

Coil/Atomizer

Creates the aerosol and may release heavy metals (nickel, tin and lead) that are dangerous to inhale.

Computer/ Microprocessor

Activates the battery by pressing a button or inhaling through mouthpiece.

Wick

Cotton fiber pulls e-liquid toward the heating coil.

Battery

Lithium ion battery heats the coil. Exploding batteries cause severe burns and injuries.

E-liquid Ingredients NOT Listed on the Package 80+ chemicals including known carcinogens



Nicotine -

dangerous and highly addictive chemical, can increase in blood pressure, heart rate, blood flow to the heart and narrowing of the arteries



Propylene glycol (PG) -

clear, colorless, oily liquid, used to create artificial smoke/fog.



Fine Particulates -

causes **nose, throat and lung irritation, coughing, sneezing, runny nose and shortness of breath**, can affect lung function and worsen asthma and heart disease



Vegetable glycerin (VG) -

considered non-toxic when delivered orally.



Flavorings -

unregulated for vape products, when heated become carcinogens and cause lung injury



Volatile organic compounds -

causes **eye, nose and throat irritation, shortness of breath, headaches, fatigue, nausea, dizziness and skin problems** are carcinogenic



Carbonyls

(including formaldehyde and acetaldehyde) often created when PG and VG are heated