

# LEAD-FREE VAPE CARTRIDGES

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## Lead-Free Vape Cartridges

\$2.10 - \$2.60

Mouthpiece Tip

Choose an option

Tank Size

Choose an option

Intake Hole Size

Choose an option

1

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Description

Additional information

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## Description

### VAPE CARTRIDGES AND LEAD CONTAMINATION: THE CANNABIS INDUSTRY SHOULD – AND CAN – DO BETTER

As cannabis legalization escalates across the nation and around the world, governmental agencies have struggled to keep up with the industry's technological innovation. The vaporization of cannabis concentrates is one of the fastest growing segments in the industry. While vaporization is considered a safer and more convenient method of inhalation than smoking combustible cannabis plant material, significant health risks still exist with vaping. In the past year, media reports detailing the presence of lead in the vaped material have dominated the headlines. A preponderance of studies demonstrates that the existence of heavy metals in vaporized oil is an unnecessary health risk the industry is imposing on trusting consumers.

### HEALTH EFFECTS AND VAPING – DOES YOUR MANUFACTURER MEET REGULATIONS?

## MEET REGULATIONS?

The cannabis industry can do better. Atlas Technology Manufacturing ('Atlas') a producer of vape cartridges based in Tukwila, Washington with wide distribution in Washington, Oregon, Nevada and California – believes that the industry must aggressively pursue a lead-free standard to protect consumers from potential negative health effects related to vaping cannabis concentrates. Some states, and California in particular, have already instituted strict rules regarding heavy metals. Vape cartridge manufacturers should take it upon themselves to not only meet those regulatory requirements but exceed them. It's in the best interest of consumers – and the entire cannabis industry. If the industry wants to position vaping as a healthier and more convenient alternative to smoking cannabis flower, it is incumbent upon everyone to work diligently to deliver the healthiest array of products possible.

## THE FUTURE OF THE VAPING SECTOR:

The rapid growth of cannabis concentrates has helped fuel the cannabis industry, and that growth will continue for the foreseeable future. According to a report by ArcView Market Research in conjunction with BDS Analytics, consumer spending on cannabis concentrates in the United States was estimated at \$3 billion in 2018 – a 49 percent increase from the previous year's sales. By 2022, ArcView forecasts that Americans will spend \$8.4 billion on concentrate products. For comparison, ArcView estimates that flower sales will be \$8.5 billion in 2022.

Currently, the prefilled vape cartridge segment accounts for nearly 60 percent of all concentrate sales – and that percentage is expected to increase as vaping becomes even more ubiquitous in the United States.

Research suggests that there are many reasons consumers are opting for vaporization over smoking cannabis flower. Among the leading factors:

- Discretion: Vaping allows for inhalation without the distinctive cannabis odor.
- Ease of use: Vape pens require little to no preparation.
- Portability: Vape pens allow for convenient use away from the home.
- Health: Vaporization is better for your body than smoking combustible cannabis plant matter.
- Media Reports of Lead in Vape

## MEDIA REPORTS OF LEAD IN VAPE CARTRIDGES AND VAPING HEALTH RISKS

Consumers have been bombarded with news reports of vape cartridges containing lead and are questioning the inherent health risks of vaping. The media attention reached a crescendo earlier this year when California's stringent testing rules went into effect. Beginning January 2019, cannabis oil contained inside vape cartridges in California could not contain lead exceeding 0.5 parts per million (ppm). By comparison, the state of Washington's limit is 1.2 ppm; Oregon does not prohibit heavy metals in cannabis vape products.

While the sensational headlines are alarming and caused consumer trepidation, the reality is that many vape cartridges meet California's tough requirement. Only a small number of the cartridges since January 1 are failing the California protocols. But most of the approved cartridges still contain 0.4 or 0.3 parts per million, just below the California legal limit.

But is just below the California limit acceptable? A unanimous scientific consensus exists including both the World Health Organization and the Centers for Disease Control, there is no safe level of exposure to lead. The CDC considers lead a neurotoxin that, if consumed, is potentially fatal. It can also cause:

- Decreased IQ
- High blood pressure
- Joint and muscle pain
- Headaches
- Abdominal pain
- Mood disorders
- Difficulties in memory or concentration.

For pregnant women, lead exposure can directly cause miscarriage or premature birth and may adversely affect the health of the child

For pregnant women, lead exposure can directly cause miscarriage or premature birth and may adversely affect the health of the child even if the child is carried to term and otherwise born without complications.

The presence of lead is outlawed in paint, gasoline, toys and other common consumer products.

## IN SEARCH OF A LEAD-FREE VAPE CARTRIDGE

California's strict cannabis manufacturing safety regulations – and the ensuing controversy over contaminated cannabis vape concentrates – served as a wake-up call for the industry. Atlas applauds California's efforts to protect consumers from harmful heavy metals. But it is our position that we should strive to exceed the legal requirements. After multiple attempts, Atlas created the Atlas A3 Lead-Free Vape Cartridge a state-of-the-art, non-corrosive high terpene vape cartridge that contains no detectable levels of lead. Following months of internal testing, Atlas commissioned two independent testing labs to verify our results; one lab to test the metal components in the vape cartridge manufacturing and the second to test the cartridges cannabis oil for the presence of lead. We also submitted to the two research labs the leading vape cartridge currently on the market for a comparison.

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