Is There Lead in my tap water?

The water contamination crisis in Flint, Mich., has fanned worries about how much lead is coming out of taps in homes across the USA. Below is an article to give you more information on lead in water.

How does lead get into tap water?
Over the last twenty years, major steps have been taken to reduce lead exposure in tap water. These measures are the Safe Drinking Water Act and the U.S. EPA's lead and copper rule. Even with both these rules, lead can still be discovered in some inside water pipes, metal water taps and pipes connecting a home to the street. Lead found in tap water comes from the corrosion of older pipes or from the solder connecting them. When water settles in leaded pipes for a few hours, lead can filtrate in the water supply.

How do I know if my tap water is contaminated with lead?
You cannot see, taste or smell lead in your water. The only way to know if you have lead in your tap water is to have it tested. You can test it yourself with a testing kit or better yet send it to a testing company in your area. For homes served by a public water system, data is usually available online. Call your water provider to find more information.

Does a high lead level in your tap water cause health effects?
Yes. High levels of lead in tap water can cause health effects if the water penetrates into your bloodstream and causes an elevated blood level of lead.

Exposure to lead-contaminated water would not elevate blood levels in most adults. High levels of lead depend on how much water you drink. Infants, however, have a higher risk because of their size.

What can I do to reduce or eliminate lead in my tap water?
If your tap water contains lead at levels exceeding the EPA's action level at 15(ppb). You should take action to reduce your risks.

Flight attendants won't drink the water on airplanes!

If you're on an airplane and the food cart comes by — should you order any drinks?

One flight attendant told Business Insider, "Flight attendants will not drink hot water on the plane. They will not drink plain coffee, and they will not drink plain tea."

A 2004 EPA study found that 1 in every 8 planes fails the agency's standards for water safety.

An investigation in 2012 by NBC 5 found that the water safety on airplanes may not be much safer than it was when the EPA conducted sample tests in 2004.

While most airlines now serve bottled water on their beverage carts, many airlines still make coffee and tea with water that comes from a tank on-board. That tank is filled at airports in all different cities. And sometimes the hoses used to fill the tanks are filthy.

Next time you are on a airplane, drink bottled water.

http://www.businessinsider.com/airplane-tap-water-tainted-epa-faa-fda-flight-attendants-avoid-study-video-2017-2-http://www.nbcdfw.com/investigations/EPA-Tests-Show-High-Percentage-of-Airplanes-Still-Have-Bacteria-in-Water-Served-On-Board-226813491.html
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Lead article continued...

First, ask a water testing authority these questions:
Does my water have lead in it above the EPA's standard?
If the answer is yes, ask the next question?

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Source: htpps://www.cdc.gov/nceh/lead/tips/water.htm

The awesome advantages of stainless steel

Almost everyone uses stainless steel in one way or another. Stainless is used in kitchen appliances, on automobiles, in architecture, surgical instruments, industrial equipment, storage tanks and much more.

Stainless steel is highly resistance to corrosion and rust because it has a chromium-rich oxide film formed on the surface of the steel. Although extremely thin, this inert film is tightly sticking to the metal and extremely protective from a wide range of corrosive media. In the illustration the left, the chromium film is rapidly repairing itself to cutting it

Stainless steel has many other benefit

Fire and heat resistant
Special high chromium and nickel-alloyed grades resist scaling and retain strength in high temperatures

Aesthetic Appearance
The clean looking and easily maintained surface provide a modern and attractive appearance.

Ease of fabrication
Stainless steel can be cut, formed, welded machined and fabricated as readily as traditional steels.

Impact resistance
The microstructure of the 300 series provide high toughness from elevated temperatures to below freezing, making these steels suited for all applications.

Value for life
When total life cycle costs are considered, stainless steel is often the least expensive material option.

Never has to be Painted
You can paint stainless steel but it never has to be painted. Never.

Hygiene
Easy to clean and is the number one choice in hospitals and food processing plants.

Sustainable
Stainless steel can be used and recycled and reused aga

Stainless Steel with protective chromium coating heals itself when scratched
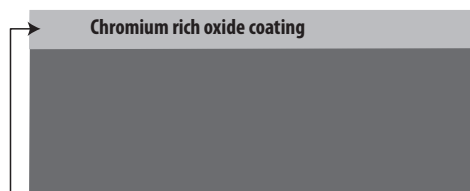

Chromium rich oxide coating

Figure 1 Stainless Steel with protective coating of passive chromium rich oxide film that is automaticly formed.
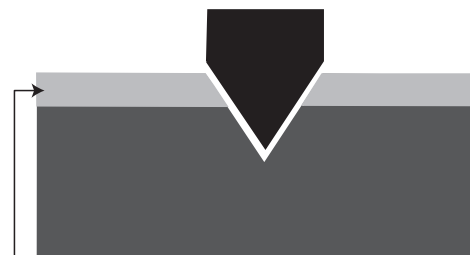
Figure 2 When scratched, damaged or machined this protective film is denuded exposing the steel to the atmosphere.

Figure 3 The protective coating is quickly restored through the rapid self-repairing quality of the chromium rich film.

Source:
http://www.ssina.com/overview/features.html, https://www.nickelinstitute.org/NickelUseInSociety/MaterialsSelectionAndUse/Ni-ContainingMaterialsProperties/StainlessSteels.aspx/, http://http://midcitysteel.com/the-amazing-abilities-and-advantages-of-stainless-steel/, https://www.assda.asn.au/benefits-of-stainless-steel