

Spotted Salamanders



The National Institute of Health (NIH) tested the effects of the toxicity of coal-tar pavement sealants on spotted salamanders. They found that there was a negative effect on swimming. This is concerning because spotted salamanders live here. Also, spotted salamanders' favorite habitats are forests near rivers and streams. Coal tar runoff gets into the rivers and streams and hurt the salamanders.



The National Cancer Institute The Agency for Toxic Substances and Disease Registry The US Department of Health and Human Service



These agencies have found out that exposure to PAHs increases risk of cancers in humans and animals, including skin, lung, kidney, bladder, and stomach cancers. (Williams and Wilbur et al 2017)

Coal tar sealants cancer risks are approximately one excess cancer per ten thousand exposed individuals. (Williams and Wilbur 2017) There are about 6 million people in Maryland. That means 600 excess cancers! However, because of bans in 3 Maryland counties, 2.4 million people are protected.

* This is alarming, considering millions of Americans, including minors, live in

communities where coal tar sealants are frequently used.



Columbia University Center for Children's Environmental Health

A 2017 study showed that PAH's can cross the placenta and fetal blood-brain barrier triggering inflammation that is toxic to the developing brain.



Pregnant women should not enter.







Alternatives to Using Coal Tar Sealants



Home Depot Latex-ite Sealant Display

Latex-based sealers and asphalt-based sealers are two alternatives easy to get and priced about the same as coal-tar based sealers

Henry Asphalt Sealants

HE532 Driveway Sealer - asphalt based MSDS HE175 Driveway Sealer - asphalt based MSDS HE130 Driveway Sealer - asphalt based MSDS

Gardner Asphalt Sealants

Blackjack Ultra - Maxx 1000 - asphalt based SDS Blackjack Drive - Maxx 700 - asphalt based SDS Gardner Max 10 - asphalt based SDS Gardner Pro 7 - asphalt based SDS Blackjack Black Maxx 600 - asphalt based SDS Blackjack Drive-Kote 500- asphalt based SDS Blackjack New Black 300 - asphalt based SDS Gardner Drive 5 - asphalt based SDS Blackjack Drive-seal 200- asphalt based SDS Blackjack Commercial - asphalt based SDS



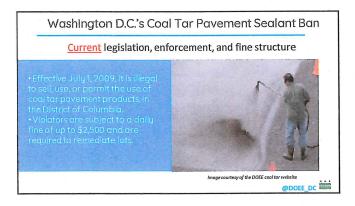
A Comparison of Driveways...

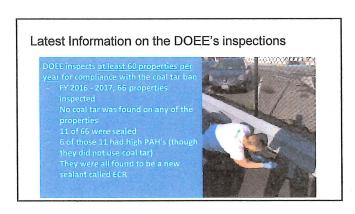


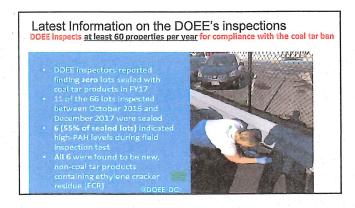
Can you identify the different sealants??

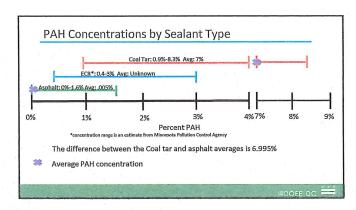
Company	Phone	oset	use?	Comments from the company
RSA Paving	410-730-5177	МО	asphalt-based	
Testa	301-305-8823	МО	Asphalt-based	
PJ's Driveway	301-606-4288	ИО	Neyra Force http://neyra.com/prod ucts/sealers/neyra- force No coal tar or asphalt - it's water- based petroleum resin	They used to use coal tar but found out that it had carcinogens, so they stopped using it
Aid Paving, LLC	240-442-2404	No	Water-based	
Got paving	410-672-3333	МО	asphalt-based	They don't even try to get it anymore because it's environmentally unfriendly.
EC Home Depot	410-750-2199	NO	Sell Asphalt based sealants	It's an environmental concern, they have a policy not to use it.
EC Lowes	410-869-3140	МО	Latexite	
AC Paving	410-923-6100	NO	Asphalt-based	

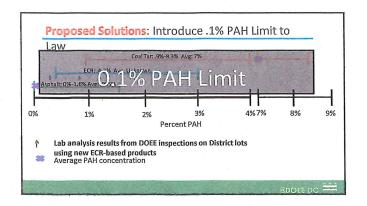


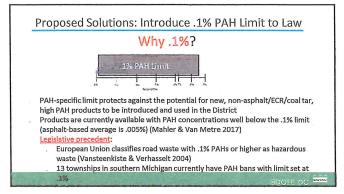


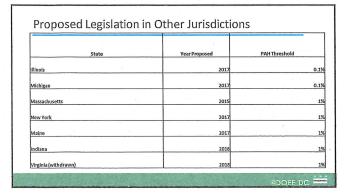














The E.P.A. and the U.S.G.S



Bans in other local areas were helped with research done by the E.P.A. and the U.S.G.S., including <u>Washington DC (2009)</u>, <u>Montgomery County (2012)</u>, <u>Prince George's County (2015)</u> and <u>Anne Arundel County (2015)</u>.

Currently, 40% of all Maryland residents are now under a coal tar ban...why not us???

22.5 million Americans are currently under a Coal Tar Ban! (www.coaltarfreeusa.com)







Politicians Who are Helping Us!!





United States Congressman from Austin, Texas, Lloyd Doggett, whose proposed bill helped Austin, TX become the 1st city in the US to ban coal tar sealants.



Washington State Senator David Frockt, whose proposed bill was passed in the House, 64-32, and the Senate, 36-12 making it the 1st state in the nation to ban the sale and use of coal tar sealants.







Thank you for continuing to keep Howard County a healthy community!

We hope that you will <u>vote in favor of people</u>, not profits.

Sources: Page 1

North American Lake Management Society Lakeline Magazine Spring 2017
USGS Publications

"Toxicity of Coal-Tar Pavement Sealant to Aquatic Animals" Jennifer McIntyre

" Coal-Tar Based Pavement Sealants- A Potent Source of PAH's" Barbara Mahler and Peter Van Metre" USGS

"Trends and Sources of PAH's to Urban Lakes and Streams" Peter Van Metre and Barbara Mahler

" Human Health Concerns Associated with Exposure to PAH's and Coal-Tar Sealed Pavement" Spencer Williams and William Wilbur

5) "Protecting Urban waters and Sediments in Minnesota and the Great Lakes Region" Al Innes

Sources Page 2:

www.mypavementguy.com

https://www.ncbi.nlm.nih.gov/pubmed/20440554

https://www.sciencedirect.com/science/article/pii/S2214750016300051

https://www.watershedcouncil.org/coal-tar-sealants-and-pah-contamination.html

http://www.coaltarban.com/

https://coaltarfreeusa.com/

 $\underline{https://www.montgomerycountymd.gov/DEP/contact/coal-tar.html}$

https://www.princegeorgescountymd.gov/678/Coal-Tar-Sealant-Ban

https://doee.dc.gov/coaltar

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http://www.aacounty.org/departments/inspections-and-permits/site-inspections/coal-tar-pavement-ban/

https://www.cancer.gov/ahout-cancer/causes-prevention/risk/substances/coal-ta

https://archive.usgs.gov/archive/sites/www.usgs.gov/newsroom/article.asp-ID=3914.html

https://ccceh.org/wp-content/uploads/2012/02/perera2006b.pdf

Chris Mariani CBGO - 2018

The bill as written would be detrimental to the businesses (Gem Seal, Sealmaster, Seaboard) represented in Maryland:

- Nearly 70-75% of our volume is shipped out of state. The bill as written, if passed in Baltimore County, would prevent us from selling coal tar sealer to contractors beyond Maryland. Our out of state contractor clients would purchase coal tar sealer products from one of several out of state competitors. We could never survive a drop in volume of that magnitude.
- The bill is modeled after a local municipal ordinance in Michigan where the local governing entity (Lake Huron River Watershed Auth.) consulted with ONE manufacturer ★ who influenced the language to their favor at the expense of their competitors.
- Sales of pavement sealer of any type have declined over 40% in the Austin TX area, the first municipality to pass a ban in 2007.
- The bill specifically eliminates alternative sealers that have low PAH content and have been approved for use in Austin TX.
- This bill potentially eliminates certain brands of asphalt based sealers at .1% PAH level.

The bill claims that exposure to coal tar sealer increases cancer risk 38 times is a <u>completely false</u> <u>claim</u>:

- Coal tar sealer is not listed as a carcinogen by IARC or any other organization.
- The mission of the USGS does not include determining the carcinogenicity of any product or substance. The USGS (Mahler and Van Metre) never conducted any study to determine the carcinogenicity of coal tar sealer.
- In the nearly 15 years that USGS has been targeting coal tar sealers, they have never established a link to human cancer or adverse health effects from to coal tar sealer, likely because.....
- In the 60+ years that coal tar sealers have been commercially available, there is absolutely no history of human cancer or adverse health effects from this product to the general public, or by those who manufacture sealer, manufacture the raw material, or apply coal tar sealers. The statement is based on a model that makes numerous assumptions. Historical human health records both medical and OSHA related do support this claim.

What was missed in the student's research report:

- There was no effort to interview at least one of 3 of the local sealer manufacturers, a contractor, or a producer of RT-12 about coal tar sealers and PAHs.
- There was no effort to interview any of the scientists that peer reviewed the USGS research and found it to be deeply flawed.
- There was no effort to consult one of many independent researchers who have done
 multiple studies (all peer reviewed) on coal tar sealers and PAHs like Dr. Kirk O'Reilly
 (geochemist), Dr. Robert DeMott (toxicologist), Dr. Tom Gauthier (environmental geologist),
 Dr. Brian Magee (toxicologist specializing in PAH toxicology and risk assessment), or Dr. Sung
 Woo Ahn (environmental scientist)
- There was no balanced or objective approach.