From: Larry Dunn
To: Makarow, Irina (ECY)
Subject: Re: Phthalate Action Plan 3-3-2022 Presentation Slides
Date: Thursday, March 17, 2022 8:39:37 AM

For today's meeting here is something that I found.

Epub 2021 Oct 31.

Phthalates in the environment: characteristics, fate and transport, and advanced wastewater treatment technologies

Huu Tuan Tran [1], Chitsan Lin [2], Xuan-Thanh Bui [3], Minh Ky Nguyen [1], Ngoc Dan Thanh Cao [4], Hussnain Mukhtar [5], Hong Giang Hoang [6], Sunita Varjani [7], Huu Hao Ngo [8], Long D Nghiem [8]

Affiliations expand

PMID: 34732372 DOI: 10.1016/j.biortech.2021.126249

Abstract

Phthalates are well-known emerging contaminants that harm human health and the environment. Therefore, this review aims to discuss about the occurrence, fate, and phthalates concentration in the various environmental matrices (e.g., aquatic, sediment, soil, and sewage sludge). Hence, it is necessary to treat sources containing phthalates before discharging them to aqueous environment. Various advanced wastewater treatments including adsorption process (e.g., biochar, activated carbon), advanced oxidation processes (e.g., photo-fenton, ozonation, photocatalysis), and biological treatment (membrane bioreactor) have been successfully to address this issue with high removal efficiencies (70-95%). Also, the degradation mechanism was discussed to provide a comprehensive understanding of the phthalate removal for the reader. Additionally, key factors that influenced the phthalates removal efficiency of these technologies were identified and summarized with a view towards pilot-scale and industrial applications.

From: Makarow, Irina (ECY) <Imak461@ECY.WA.GOV>
Sent: Thursday, March 3, 2022 4:44 PM
To: Larry Dunn <larrydunn360@hotmail.com>
Subject: RE: Phthalate Action Plan 3-3-2022 Presentation Slides

Hello Larry –

Thank you for this additional information. The comments were also posted on the online form for the project.

Irina

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Sent: Thursday, March 3, 2022 11:01 AM
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Subject: Re: Phthalate Action Plan 3-3-2022 Presentation Slides

Crosslinked Polyethylene (PEX)

Like HDPE and PP, there are few health hazards in the main content of the pipes themselves, but there is concern that chemicals can leach from the pipes or break down into other chemicals that leach from the pipes.[19] Water supplied from PEX pipes is also sometimes known to have taste and odor problems.[20] Some studies indicate that more chemicals can leach from PEX than from the plastics ranked higher in this Hazard Spectrum.[21] These pipes are installed using a variety of polymer and metal fittings. PEX is the only type of pipe on the Hazard Spectrum that cannot be recycled into new pipes, so its end-of-life options are limited.

Water Pipes Hazard Spectrum | HomeFree from HBN (healthybuilding.net)

From: ECY RE CHEM ACTION PLANS (HWTR) <ChemActionPlans@ECY.WA.GOV>
Sent: Thursday, March 3, 2022 8:12 AM
Cc: Tamboer, Lauren (ECY) <Ltam461@ECY.WA.GOV>; Fanning, Elinor W (DOH) <elinor.fanning@doh.wa.gov>; Niemi, Cheryl (ECY) <cnie461@ECY.WA.GOV>; Makarow, Irina (ECY) <Imak461@ECY.WA.GOV>
Subject: Phthalate Action Plan 3-3-2022 Presentation Slides

Hello Advisory Committee members –

Please find attached the agenda and slides for today's presentation starting at 9 AM PT.

These documents are also posted on the project web page:
https://www.ezview.wa.gov/site/alias__1962/37711/phthalates_action_plan.aspx

We look forward to our discussion later this morning.
Join Zoom Meeting
https://waecy-wa-gov.zoom.us/j/81693540072?pwd=M0RJbVdUYlJxODdYaW5aZXlsMS9zZz09
Meeting ID: 816 9354 0072
Passcode: Phthalates
One tap mobile
+12532158782,,81693540072#,,,,*4743225855# US (Tacoma)
+13462487799,,81693540072#,,,,*4743225855# US (Houston)
Dial by your location
+1 253 215 8782 US (Tacoma)
+1 346 248 7799 US (Houston)
+1 669 900 6833 US (San Jose)
+1 301 715 8592 US (Washington DC)
+1 312 626 6799 US (Chicago)
+1 929 205 6099 US (New York)
Meeting ID: 816 9354 0072

Passcode: 4743225855
Find your local number: https://waecy-wa-gov.zoom.us/u/kzPz6CLPl
Don't hesitate to contact our team if you have any questions.

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