

# TURI Alternatives Assessment: Halogenated Solvents Used in Surface Cleaning

**Massachusetts Toxics Use Reduction** 

### **Alternatives Assessment**

A process for identifying and comparing potential chemical, material, product, or other alternatives that can be used as substitutes to replace chemicals of high concern.

#### Goals

- Reduce risk by reducing hazard
- Move from problems to solutions
- Avoid regrettable substitutions
- Encourage transparency, common language, and documentation to communicate among stakeholders

## **Examples of Factors to Consider**

Is it Safer?	Is it Affordable?	Will it Work?
<ul> <li>Flammability</li> <li>Human toxicity</li> <li>Eco-toxicity</li> <li>Ozone depletion</li> <li>Persistence</li> <li>Bioaccumulation</li> </ul>	<ul> <li>Materials</li> <li>Regulatory compliance</li> <li>Insurance</li> <li>Training</li> <li>Equipment</li> <li>Utilities/energy</li> </ul>	<ul> <li>Process changes</li> <li>Equipment changes</li> <li>Material     compatibility</li> <li>Product quality</li> <li>Product longevity</li> <li>Customer     specifications</li> </ul>

## **Brief History of TURI AAs**

- As requested by the MA legislature: five chemicals of concern [lead, formaldehyde, perchloroethylene, hexavalent chromium, and di (2ethylhexyl) phthalate (DEHP)] - 2006
- Sector specific: Alternatives to Perc in dry cleaning - 2012
- Materials based: Athletic playing field surfacing alternatives - 2018

## **AA Tools Available**

- There are many tools to help complete an alternatives assessment
- P2OASys was developed at TURI to help evaluate the EH&S factors considered in an AA



## What is the objective of this project?

- A place for industries using halogenated solvents to start when looking for safer alternatives
  - Provides performance, EHS and cost data.
- The document is what we hope to offer you in assistance

## How you can help...

- This AA is complex whole classes of chemicals will be evaluated
- We want to make sure it is helpful to you, the end user
  - The type of information to include
  - Making the presentation of material user friendly
- Lessons learned from you, including:
  - Regulatory, performance, etc.
  - Common challenges to address



#### **4 Regional Meetings**

Breakfast snacks will be provided 1 CE credit for attendance

#### December 3, 10am-12

MassDEP Central Regional Office – **Worcester** 

Assabet 107 and Concord 107 Rooms 8 New Bond Street, Worcester, MA 01606

#### **December 10, 10am-12**

New Bedford Public Library 613 Pleasant Street New Bedford, MA 02740

#### **December 12, 10am - 12**

#### **Springfield**

John Shea Bright Nights Technical Training Facility Building / Forest Park 293 Sumner Ave, Springfield, MA

#### **December 17, 10am – 12**

#### Lowell

TURI Office at 126 John St., Suite 14, Training room

## **Other Next Steps**

- Hope to have draft by spring with review and final document by summer 2020
- You're Invited!
  - Anyone interested in technical review from industry perspective?
  - Email invites to regional meetings are coming out within the week
  - There is sign up sheet at registration table and an info handout in your folders



## Contact us with any questions!

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