TURI Alternatives Assessment: Halogenated Solvents Used in Surface Cleaning
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

<table>
<thead>
<tr>
<th>Is it Safer?</th>
<th>Is it Affordable?</th>
<th>Will it Work?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>Materials</td>
<td>Process changes</td>
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<tr>
<td>Human toxicity</td>
<td>Regulatory compliance</td>
<td>Equipment changes</td>
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<td>Eco-toxicity</td>
<td>Insurance</td>
<td>Material compatibility</td>
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<td>Ozone depletion</td>
<td>Training</td>
<td>Product quality</td>
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<tr>
<td>Persistence</td>
<td>Equipment</td>
<td>Product longevity</td>
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<tr>
<td>Bioaccumulation</td>
<td>Utilities/energy</td>
<td>Customer specifications</td>
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Brief History of TURI AAs

• As requested by the MA legislature: five chemicals of concern [lead, formaldehyde, perchloroethylene, hexavalent chromium, and di (2-ethylhexyl) 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
Next Steps

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!

Business & Industry Program:
Joy Onasch
joy@turi.org
978-934-4343

www.turi.org/alternativesassessment