

Massachusetts Toxics Use Reduction



TURA List of Toxic or Hazardous Substances

TURA Program Strengthening
Ad Hoc Committee

April 29, 2021



Logistics



Please state your name and organization in the chat box for the purposes of recording meeting attendance



We will pause for opportunities for attendee participation at designated times



Recordings of a public committee are not permitted without notifying the chair in advance so that attendees can be notified at the beginning of the meeting



Written notes are being taken



Please contact caredwen.foley@state.ma.us if you have technical difficulties during the meeting

Today's Agenda



Welcome and
Committee
Member
Introductions

Vote on
Minutes from
previous
meeting

Presentation:
TURA List of
Toxic
Chemicals

Discussion Questions:

- Using the TURA List
- Updating the TURA List
- Thresholds and General

Adjourn

Note: Public comments/questions will be held until opened for general discussion

Vote on Minutes



Approval of March 30,
2021 meeting minutes

List of Toxic or Hazardous Substances



- **Original list created from TRI & CERCLA**
- **1600 substances, including 60 categories**
 - 308 ever reported
- **Designed to be updated over time**
 - Federal updates
 - TURA program updates
- **2006 Amendments**
 - HHS & LHS designations
 - Changes to threshold requirements

Updates to List



- **Federal – TRI**
 - 1996-2019: fewer than 30 substances (individual chem & categories) added to TRI
 - NDAA, 2019: 172 PFAS added to TRI in 2020; more in 2021
- **TURA listings**
 - Crystalline silica, nPB, C1-C4 Halogenated Hydrocarbons and Halocarbons NOL
 - PFAS listing recommended by SAB & TURI, currently under discussion
 - Petition received for listing of single-walled carbon nanotubes, multi-walled carbon nanotubes, and carbon nanofibers
- **TURA delistings**
 - 18 delisting petitions; 14 granted (part or all)
 - Several additional delistings resulted from CERCLA list review

Substances Not Reportable to MassDEP



- 1993 reporting guidance: certain CERCLA categories not reportable (22 total)
- Examples include:
 - Phthalate esters
 - Haloethers

Updating the TURA List: Opportunities & Challenges



- **Slow pace of updates to federal lists**
- **Evolving science**
 - Additional knowledge on many endpoints, such as reproductive toxicity
- **TURA list not up to date with current science**
- **Many states and federal entities use authoritative lists as basis for updates**

Comparing TURA List with Other Authoritative Lists



- Contracted with Healthy Building Network to compare with multiple lists
 - Included analysis of categories
- Included federal, international, and state lists

List comparisons (excerpt from Table 3, p. 7)



Source	List	Sub-categories
Federal	NTP	Known to be carcinogenic to humans
		Reasonably anticipated to be carcinogenic to humans
		Clear evidence of adverse effects: developmental toxicity
International	IARC	Group 1
		Group 2a
EU	Priority Endocrine Disruptors	
	REACH restrictions (Annex XVII)	Cancer
		Mutagenicity
		Reproductive toxicity

List comparisons: results

(Examples - see p. 7)



- **NTP:**
 - Known carcinogen: 25
- **Vermont:**
 - Chem of High Concern for Children: 47 (e.g. Bisphenol S, several phthalate esters)
- **Maine:**
 - Chem of High Concern & Priority Chem: 16 (e.g. nonylphenols not in TRI categories)
- **CA Prop 65:**
 - Cancer: 302 (e.g. TCEP, benzidine salts)
 - Reproductive toxicity: 192 (e.g. DIDP)

Examples (excerpt from Table 4, p. 9)

Substance	Lists	Notes
DIDP	State – Prop 65, VT, WA EU – ED, REACH restrictions Federal – NTP (clear evidence dev)	Not reported per 1993 guidance
Bisphenol S	State – VT, WA EU - REACH restrictions Other – GS1	Alternative to Bisphenol A
Benzidine salts & dyes	State: Prop 65, ME EU: REACH restrictions Federal: NTP	Well-established chemicals of concern

Options for Updating the TURA List

Draw from authoritative lists

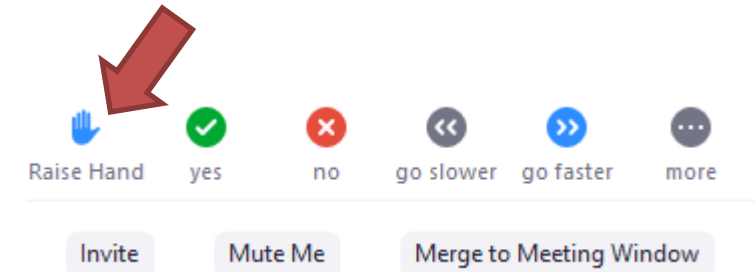
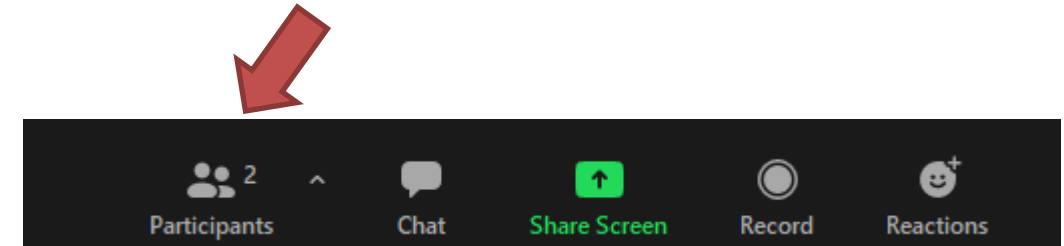
Require reporting of CERCLA categories already listed

Create informational list of lists

Discussion Logistics

Use Zoom function to raise your hand for comments or questions

- To access the "Raise Hand" function, click "Participants" at the bottom of your screen, and then click the "Raise Hand" button that appears under the list of participants
- This will notify the host that you have a question
- Participants will be unmuted and invited to ask questions one at a time



Please contact
Caroline.Higley2@mass.gov if you have
technical difficulties during the discussion

Discussion Ground Rules



Be open to other perspectives



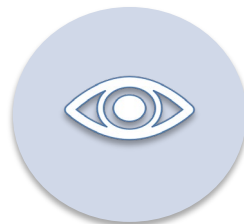
Build on suggestions



Allow space for all to participate

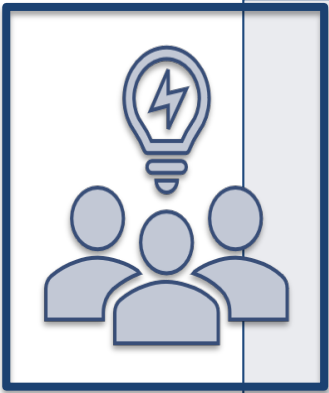


Focus on issues and opportunities

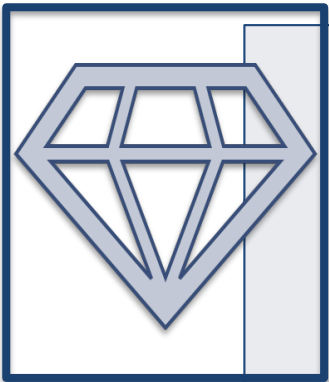


Stay present (both mentally and physically)

Discussion Goals



Gather creative, innovative ideas



Focus on opportunities to increase benefits of the TURA Program for both companies and the Commonwealth

Discussion topics



Using the TURA List



Updating the TURA
List



Thresholds and
Other Questions



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Using the TURA List

Updating the TURA List

Thresholds and Other Questions

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- Do you make use of the TURA list in your work?
 - Describe examples of how and why you use the list
 - If you work with TURA filers, what process do you use for checking which substances are reportable at a facility?
- Do you make use of other chemical lists in your work?
 - Which ones?
 - How do those lists compare in breadth and in utility (including format and ease of use)?



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Using the TURA List

Updating the TURA List

Thresholds and Other Questions

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- What feedback to you have on the usability of the information?
 - Have you encountered any challenges with interpreting information on the list?
 - Do you have suggestions on ways to make the TURA list easier to use?



Using the TURA List

Updating the TURA List

Thresholds and
Other Questions

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- Do you have suggestions for how best to approach updates to the TURA list?
 - What would be the pros and cons of options including:
 - Draw from authoritative lists;
 - Require reporting of CERCLA categories already listed;
 - Create informational list of lists
 - Other options?



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Using the TURA List

Updating the TURA List

Thresholds and Other Questions

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- Building on the information presented in the background document, as well as your own experience:
 - Are there particular substances that should be considered a high priority for addition to the TURA list?
 - Are there particular substances that should be considered a high priority for HHS or LHS designation?



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Using the TURA List

Updating the TURA List

Thresholds and Other Questions

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- Do you have input related to current TURA thresholds?
 - For example, how should the TURA program consider thresholds with regard to nanoparticles?
- Do you have other questions about the TURA List that we have not covered?

TURA Program Strengthening Ad Hoc Committee



Resolution: 1280x1024 px
Free Photoshop PSD file download
www.psdgraphics.com

Please direct any questions or
comments to:

Tiffany Skogstrom, Director MA OTA
tiffany.skogstrom@mass.gov

Adjourn



Final topic:

- TURA Fees
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