TURA Program Update

Liz Harriman and Tiffany Skogstrom
April 13, 2022
Marlborough, MA

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection

OTA
OFFICE OF TECHNICAL ASSISTANCE & TECHNOLOGY

TURI
TOXICS USE REDUCTION INSTITUTE
UMASS LOWELL

Upcoming Continuing Education

Massachusetts Toxics Use Reduction

- (Virtual) Resource Conservation Training: Energy

  April 20, 2022, 1:00pm–3:00pm

- (Virtual) Resource Conservation Training: Materials Contributing to Solid Waste

  April 27, 2022, 1:00pm-3:00pm

TURA Form S Filing and Reporting Changes

Massachusetts Toxics Use Reduction

- Reporting Year 2021 (reports due July 1, 2022)
  - US EPA 172 TRI Chemicals (reportable under TRI for 2020)
  - Listed individually with 100 lb reporting threshold
  - Not PBTs, 1% de minimis exemption applies (0.1% PFOA)
- (Virtual) Reporting Workshop (RY 2021)
  - Scheduled for May 12 to 9:00-noon
  - Plan is for recorded workshop to be made available

TURA Form S Filing and Reporting Changes

Massachusetts Toxics Use Reduction

- Reporting Year 2022
  - TURA category: Certain PFAS NOL
  - TURI/OTA Guidance available
    - https://www.turi.org/Our_Work/Toxic_Chemicals/Chemical_Information/Per-_and_poly-fluoroalkyl_substances_PFAS/PFAS_Tracking_Required_Under_TURA

USEPA TRI Reporting Changes

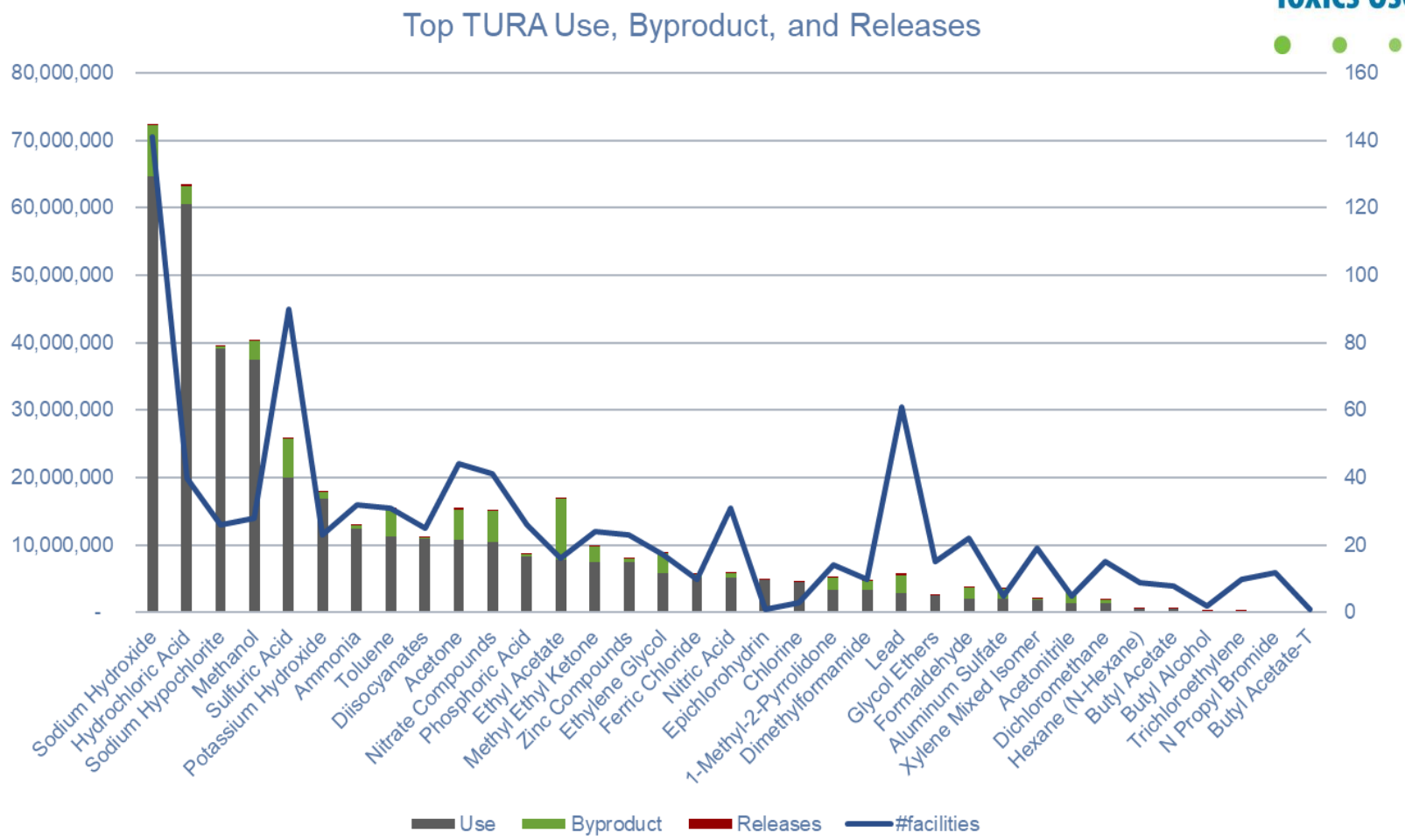
Massachusetts Toxics Use Reduction

- Reporting year 2021
  - 3 Additional individual PFAS chemicals
    - Perfluorooctyl iodide (507–63–1)
    - Potassium perfluorooctanoate (2395–00–8)
    - Silver(I) perfluorooctanoate (335–93–3)
  - *(not yet added to TURA, expect for RY2023)*

- *Proposed Rule to add 12 chemicals*
  - Dibutyltin dichloride; 683-18-1
  - 1,3-Dichloro-2-propanol; 96-23-1
  - Formamide; 75-12-7
  - 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta[g]-2-benzopyran; 1222-05-5
  - N-Hydroxyethylethylenediamine; 111-41-1
  - Nitrilotriacetic acid trisodium salt; 5064-31-3
  - p-(1,1,3,3-Tetramethylbutyl)phenol; 140-66-9
  - 1,2,3-Trichlorobenzene; 87-61-6
  - Triglycidyl isocyanurate; 2451-62-9
  - Tris(2-chloroethyl) phosphate; 115-96-8
  - Tris(1,3-dichloro-2-propyl) phosphate; 13674-87-8
  - Tris(dimethylphenol) phosphate; 25155-23-1

TURA Data

Massachusetts Toxics Use Reduction



TURA Program Advisory Committee and Administrative Council

Massachusetts Toxics Use Reduction

- Program Strengthening Ad Hoc Committee
  - Background documents and meeting minutes available:
  - https://www.mass.gov/resource/tura-program-strengthening-ad-hoc-committee
- Advisory Committee
  - Upcoming meeting - May 4, 2022 1pm – 3:30pm
- Administrative Council
  - In 2021, adopted EPA TRI list of 172 PFAS
  - Listed new TURA category - Certain PFAS NOL

Science Advisory Board

Massachusetts Toxics Use Reduction

- Recommendation to list 24 EPA Registered ADBAC and DDAC quaternary ammonium compounds (QAC's, or "quats")
  - QACs fact sheet
    https://www.turi.org/TURI_Publications/TURI_Chemical_Fact_Sheets/Quaternary_Ammonium_Compounds_Fact_Sheet
- Deliberations on Carbon Nanotubes and Carbon Nanofibers petition in process.
  - SAB Recommendation to list Multi-Walled Carbon Nanotubes (MWCNTs) based on pulmonary toxicity, lung cancer, mesothelioma and environmental persistence
- Next meeting (virtual): Monday, April 25, 1:30PM
  - Focus on Carbon Nanofibers

TURA Program Agency updates

Massachusetts Toxics Use Reduction

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FY22 TURI Grants – status update

INDUSTRY, SMALL BUSINESS, COMMUNITY AND ACADEMIC RESEARCH

Massachusetts Toxics Use Reduction

Safer Cleaning and Solvents

- Central Metal Finishing, *North Andover*
- SE Shires, *Holliston*
- Rindge School of Technical Arts, *Cambridge*
- North Randolph Cleaners, *North Randolph*
- Assoc Prof. Hsi-Wu Wong, UMass Lowell, partnering with Johnson Matthey, *Andover and Devens*

FY22 TURI Grants – status updates

INDUSTRY, SMALL BUSINESS, COMMUNITY AND ACADEMIC RESEARCH

Massachusetts Toxics Use Reduction

Focus on PFAS

- Prof. Ram Nagarajan, UMass Lowell, partnering with Transene Co., Danvers
  - surfactants in electronics manufacturing
- Community Action Works and Clean Water Fund, Boston
  - Workshops and resources for communities to reduce PFAS use
    - Apr 13 and May 18, 6-7PM webinars
- Nantucket PFAS Action Group, *Nantucket, Fall River and Hyannis Fire Departments*
  - Reducing PFAS in fire fighter turnout gear

FY22 TURI Grants

INDUSTRY, SMALL BUSINESS, COMMUNITY AND ACADEMIC RESEARCH

Massachusetts Toxics Use Reduction

Safer Consumer Products

- Silent Spring Institute, *Newton*, and Resilient Sisterhood Project, *Boston*
  - Safer Personal Care Products for Black Women

Link to all grant project descriptions:

https://www.turi.org/Our_Work/Grants/Current_Grant_Projects_Awarded_in_2021

OTA Update

Massachusetts Toxics Use Reduction

- In-Person Site Visits
- PFAS Surveys for Metal Finishers / Paper Industries
- Outreach to Significant Industrial Users upstream from MWRA / Wastewater Treatment Facilities

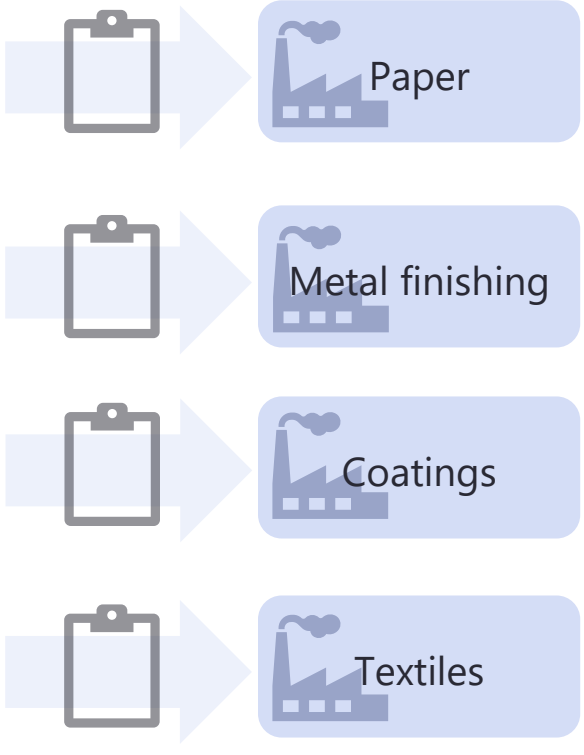
EPA Enforcement & Compliance History Online (ECHO) screen shot

OTA Update

Resources for Companies: PFAS Identification

Assessments to identify PFAS sources

(in development)

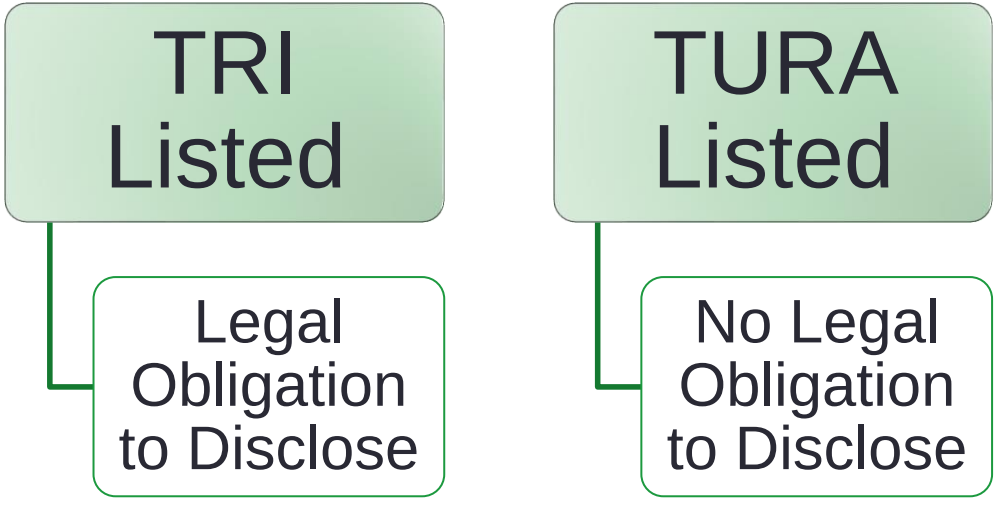


- OTA technical staff flag likely sources of PFAS
  - Companies may share list of CAS numbers with OTA
- OTA and TURI pursue research on products of concern
- Companies may opt to share product information with OTA to populate a list of PFAS-containing products

OTA Update

Supplier Notification Letter

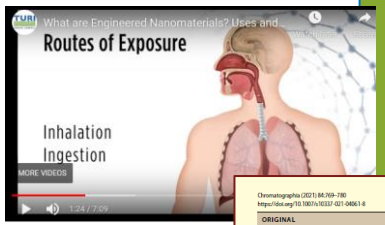
OTA has developed a **supplier notification letter** (template in handouts) that companies can use to request information from their suppliers about PFAS reportable under TRI and TURA.

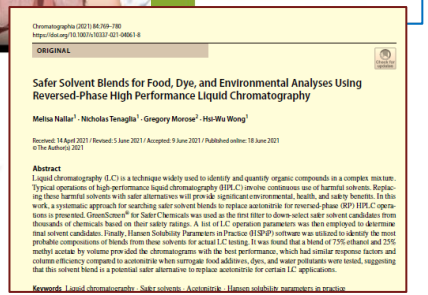


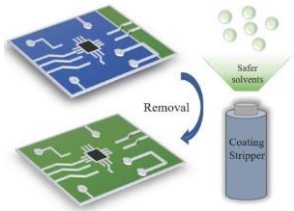
Recent Program Publications and Resources

- Guide to Finding Safer Alternatives to Halogenated Solvents
- CD Aero Eliminates Use of nPB, Gains Production Capacity – case study, demo video
- Cadmium and Cadmium Compounds Fact Sheet (updated May 2021)
- Video: What are Engineered Nanomaterials? Uses and Hazards
- 2020 TURA Data files available for download at MassDEP
- Family Martial Arts Center Kicks Out Harmful Disinfecting Chemicals While Defending Against COVID-19
- Evaluation of Conversion Coatings Without Hexavalent Chromium for Aerospace and Defense Applications
- Removing Acrylic Conformal Coating with Safer Solvents for Re-Manufacturing Electronics *(Polymers journal)*
- Identification of Safer Alternatives to TCE for Cleaning Applications in Minnesota

Massachusetts Toxics Use Reduction







Contact us any time!

Massachusetts Toxics Use Reduction

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