

Massachusetts Toxics Use Reduction



TURA Program Update

April 4, 2019

Devens, MA



MassDEP Updates

Annual TURA Reporting Training

- April 25th UMass Dartmouth
- May 16th Worcester DEP
- May 21st Greenfield Community College
- May 29th Newburyport Wildlife Refuge

TUR Planning: Not a Planning Year but...

- Started systematic compliance review of TURA Plans – six so far, six more pending
- Working with TURPs to improve and clarify guidance

Changes to Chemical List

Hexabromocyclododecane (HBCD)

- First reports due July 1, 2019 (for RY2018)
- PBT Threshold: 100 pounds
- (First reported under TRI for RY2017)

C1-C4 Halogenated Hydrocarbons/Halocarbons Not Otherwise Listed

- First reports due July 1, 2020 (for RY2019)
- State only chemical

PFAS and Science Advisory Board

- Update: Science Advisory Board Work on Per- and Polyfluoroalkyl Substances (PFAS)
 - Reviewed scientific literature and voted to recommend listing:
 - PFBA, PFBS (C4)
 - PFHxA, PFHxS (C6)
 - PFHpA (C7)
 - PFOA, PFOS (C8)
 - PFNA (C9)
 - PFECA: GenX/HFPO-DA (C3 ether)
 - Upcoming reviews:
 - PFPA, PFPiA (phosphonic and phosphinic acids)
 - PFECA: ADONA (diether)
- TURI/IC2 Webinar: Uses and degradation of PFAS by ACC's Fluorocouncil

TURI Co-Directors



- Prof. Emeritus Mike Ellenbecker
 - Industrial hygienist, expertise in aerosol science, nanomaterials, ventilation and occupational health and safety



- Prof. Joel Tickner, Public Health
 - Expertise in environmental and chemicals policy, alternatives assessment (A4) and green chemistry (GC3)



- Assoc. Prof. Chris Hansen, Mechanical Engineering
 - expert in development of safer materials, additive manufacturing and 3D printing, and composites

TURA Program Resources



MA TOXICS USE REDUCTION ACT - CURRENT CHEMICAL LIST -- Version June 13, 2018
 PBT = persistent bioaccumulative toxic chemical, HHS = higher hazard substance, LHS = lower hazard substance
 X = Reportable Chemical or Category, Q= TRI and TURA have different qualifiers, C = Reportable as Part of a Chemical Category

Substance Name (delisted or stayed substances are struck out)	CAS # / DEP CODE	TRI Listed Substance	CERCLA Listed Substance	TURA Only Listed Substance	PBT / HHS / LHS	De Minimis Concentration Threshold (1.0% if blank)	Qualifiers and Definitions	Changes to Reporting Requirements Over Time Reporting Year (RY) is the calendar year covered by the report
Methanol	67581	X	X					
lauryl alcohol (methylolacrylate)	67830	X						
Acetone	67641		X				State Only Form R	Always TURA reportable - TRI chemical delisted (RY1999), however also a CERCLA chemical added RY1991
Chlorobenzene	67830	X	X			0.1%	This chemical is an OSHA Carcinogen, the 0.1% de minimis threshold applies.	
Methane, trichloro-	67020	X	X			0.1%	This chemical is an OSHA Carcinogen, the 0.1% de minimis threshold applies.	
Hexachloroethane	67121	X	X			0.1%	This chemical is an OSHA Carcinogen, the 0.1% de minimis threshold applies.	
Dimethylformamide	68122	X	X		1000 L	HHS	Higher hazard substance. State Only Form R required. Submit separate Form R to EPA. If Federal threshold exceeded.	Added to TURA (TRI and CERCLA) RY1995. Become Higher Hazard Substance RY2016
N,N-Dimethylformamide	68122	X	X		1000 L	HHS	Higher hazard substance. State Only Form R required. Submit separate Form R to EPA. If Federal threshold exceeded.	Added to TURA (TRI and CERCLA) RY1995. Become Higher Hazard Substance RY2016
2,5-Dicyclohexadecyl-1,4-dione	68788	X						
Triazopone	68788	X						
Guandine, N-methyl-N-nitro-N-(2-hydroxyethyl)-	70257		X					CERCLA Chemical added RY1991

TURI Apply for an Industry Grant

Up to \$30,000 Available for Massachusetts Companies

TURI offers Industry Grants of up to \$30,000 to help manufacturing facilities in Massachusetts improve processes or install technology that will reduce toxic chemical use.

Toxics Use Reduction Examples:

- An advanced materials company eliminates the use of trichloroethylene, resulting in \$750,000 in annual savings.
- An optical fiber cable company researched and bench scale tested alternatives to hydrofluoric acid, a higher hazard substance.
- A metal finisher recovers and reuses 98 percent of the plating chemistry from a modern, efficient plating line.

Need help with project ideas?
 Contact: Amy Chausky, amy@turi.org, 978-934-4343

For more details and the grant application, visit: www.turi.org/industrygrant
 Submit a short application by June 21, 2019.

Program funding is limited and submitting an application is no guarantee that a grant will be awarded.

