



Toronto's ChemTRAC Program and the Environmental Reporting and Disclosure Bylaw

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**Presentation to the Air and Waste
Management Association**

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CHEMTRAC

Chemicals in
Toronto:
Reduction and
Awareness in our
Community

Goal:

- To protect public health by reducing toxic chemicals in our environment

Objectives:

- Increase awareness by facilities of their use & release of priority chemicals of health concern
- Support “greening” of local businesses via pollution prevention education, and collaboration with industry to enhance growth, productivity and innovation
- Provide public access to information about chemicals used and released in the community

Chapter 423
ENVIRONMENTAL REPORTING AND DISCLOSURE

ARTICLE I Interpretation	ARTICLE III Inspections
§ 423-1. Definitions.	§ 423-6. Inspections.
ARTICLE II Duty to Report	ARTICLE IV Access to Information
§ 423-2. Duty to report.	§ 423-7. Access to information.
§ 423-3. Exemptions from reporting requirement.	ARTICLE V Penalty
§ 423-4. Content of report.	§ 423-8. Offence.
§ 423-5. Record-keeping.	Schedule A to Ch. 423. Priority Substances, Mass Reporting Thresholds and Concentration Thresholds

[HISTORY: Adopted by the Council of the City of Toronto 2008-12-03 by By-law No. 1293-2008.¹ Amendments noted where applicable.]

ARTICLE I
Interpretation

§ 423-1. Definitions.

As used in this chapter, the following terms shall have the meanings indicated:

ACCOMMODATION SERVICES — Includes hotels and motels.

ARTICLE — A manufactured item that does not release a priority substance when it undergoes processing or other use.

BY-PRODUCT — A priority substance which is incidentally manufactured, processed or otherwise used at the facility at any concentration and released on site to the environment.

¹ Editor's Note: This by-law came into force 2010-01-01.

423-1 2008 - 12 - 03

- Requires reporting on 25 toxic chemicals (or group of chemicals) of priority concern to health, if annual thresholds reached
- Requires facilities that *use or release* one or more of the priority chemicals to report:
 - *on-site releases to air, water & land*
 - *'use' as total manufactured, processed or otherwise used*
- Some facilities and activities within facilities not required to report

Acetaldehyde

Acrolein

Benzene

1,3-butadiene

Cadmium

Carbon tetrachloride

Chloroform

Chromium (hexavalent)

Chromium (non-hexavalent)

1,4-dichlorobenzene

1,2-dichloroethane

Dichloromethane

Ethylene dibromide

Formaldehyde

Lead

Particulate Matter (PM2.5)

Manganese

Mercury

Nickel

Nitrogen Oxides (NOx)

Polycyclic Aromatic Hydrocarbons (PAHs)

Tetrachloroethylene

Trichloroethylene

Vinyl Chloride

Volatile Organic Compounds (VOCs)

Printing and publishing:

May use/release VOCs, dichloromethane, formaldehyde, mercury, cadmium (e.g. inks)



Food and beverage:

May use/ release VOCs, particulate matter, formaldehyde (e.g. processing, cleaning equipment)



Autobody refinishing:

May use/release VOCs, metals, particulates (e.g. sanding and painting)



Phase 1: Report 2010 data by June 30, 2011

- food and beverage manufacturing, printing and publishing, manufacturing (including chemical and petroleum), wood industries, power generation, water and wastewater

Phase 2: Report 2011 data by June 30, 2012

- Chemical wholesale, waste management & remediation, medical & diagnostic laboratories, dry cleaning & laundry services, automotive repair & maintenance, funeral services

Phase 3: Report 2012 data by June 30, 2013

- All other sectors, including paper manufacturing, primary metal manufacturing, machinery manufacturing



Compliance and technical assistance:

- Bylaw guidance information
- > 60 calculators to estimate chemical use and emissions
- Free on-site advice through Technical Assistance Program
- Simple electronic reporting

Pollution prevention guidance:

- Sector-specific information
- Annual grants for toxics reduction
- E-learning for business
- Recognition program
- E-newsletter & case studies



What types of information are most useful to businesses, public, researchers?

- Facility data
- Environmental activities of reporters and non-reporters
- Other sources of substances (e.g. individual contribution)
- Links to other programs, resources

We want to hear from you!

- Consultation workshops concluded October 5
- Online survey and discussion forums open until October 22
<https://chemtrac-survey.dpra.com/>

Local information gaps

- Only ~4% of Toronto facilities (with releases) report to NPRI and Ontario's Toxics Reduction Act
- Few data on small and medium-sized facilities
- Need to better understand contribution from all sources, particularly in communities facing existing health burdens

Local health concerns

- Long-term exposure to chemicals from many small facilities located close to where people live
- Priority substances in Toronto's air at levels of concern for health

Supporting local business sustainability

- Information creates opportunities



Make ChemTRAC work for you!

Tell us what information would help you

Complete our survey or join our discussion forum:

<https://chemtrac-survey.dpra.com/>

Stay informed with our e-newsletter

ChemTRAC news, technical updates, best practices:

Email chemtrac@toronto.ca

Apply for a Toxics Reduction Grant

October 18 deadline for grants up to \$25,000

http://www.toronto.ca/livegreen/greenneighbourhood_rebates_chemtrac.htm

Register for a free assessment of your facility

Email: chemtracvisit@partnersinprojectgreen.com



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*Tracking
and reducing toxics
in our environment*

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