

Priority Substances List 2 (PSL2) Status of consultations

updated October 2003

DEADLINE 1 – deadline to develop control
mechanism

DEADLINE 2 – deadline to finalize mechanism

1. **Acetaldehyde** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 May 27, 2000.) **DEADLINE 1 – MAY 27'02, DEADLINE 2 – NOV 27'03**

Identified in:

incomplete fuel combustion (On-Road Vehicle and Engine Emission Regulations published in CGII, Jan.03. Off-Road Small Spark Ignition Engine Emissions Reg. publ. in CG1 29-Mar-03.)
indoor sources (tobacco smoke) Indoor Air Quality Guidelines review ongoing.
forest products manufacturing (being addressed through CCME, MERS)
residential wood combustion (CSA standards for new wood-burning appliances completed)
chemical industry point sources (being address through MOUs with chemical producers)
accidental release (proposed reg published in CG1 10-Aug-02)

<http://www.ec.gc.ca/substances/ese/eng/psap/sub01.cfm#subname>

2. **Acrolein** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 May 27, 2000) **DEADLINE 1 – MAY 27'02, DEADLINE 2 – NOV 27'03**

Identified in:

incomplete fuel combustion (On-Road Vehicle and Engine Emission Regulations published in CGII, Jan.03. Off-Road Small Spark Ignition Engine Emissions Reg. publ. in CG1 29-Mar-03.)
residential wood combustion (CSA standards for new wood-burning appliances completed)
forest product manufacturing (being addressed through CCME, MERS)
pesticides (Pest Mgmt Reg Agency controls acrolein)
accidental release (proposed reg published in CG1 10-Aug-02)

<http://www.ec.gc.ca/substances/ese/eng/psap/final/acrolein.cfm>

3. **Acrylonitrile** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 May 27, 2000) **DEADLINE 1 – MAY 27'02, DEADLINE 2 – NOV 27'03**

Identified in:

municipal wastewater effluents (RMS recom'd no specific action req'd)
residential wood combustion (CSA standards for new wood-burning appliances completed)
chemical production (being address through MOUs with chemical producers, P2 plan proposed in CG1 25 May 02)
indoor sources (tobacco smoke) tobacco initiatives in place
accidental release (proposed reg published in CG1 10-Aug-02)

<http://www.ec.gc.ca/substances/ese/eng/psap/final/acrylonitrile.cfm>

4. **Aluminum chloride, aluminum nitrate, aluminum sulphate** (Notice concerning the suspension of assessment¹ has been published in the Canada Gazette, Part 1 December 2, 2000)
Identified in: **pulp and paper mills** (being addressed through CCME, MERS)
municipal wastewater effluents (consultations completed 2002)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/aluminum.cfm>
5. **Ammonia in the aquatic environment** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 June 23, 2001) **DEADLINE 1 – June 23'03, DEADLINE 2 – Dec 23'04**
Identified in: **municipal wastewater effluents** (consultations complete, P2 plan notice expected in CG2 Dec 7'04)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/ammonia.cfm>
6. **1,3-Butadiene** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 May 27, 2000) **DEADLINE 1 – MAY 27'02, DEADLINE 2 – NOV 27'03**
Identified in: **incomplete fuel combustion** (On-Road Vehicle and Engine Emission Regulations published in CGII, Jan.03. Off-Road Small Spark Ignition Engine Emissions Reg. publ. in CG1 29-Mar-03.)
residential wood combustion (CSA standards for new wood-burning appliances completed)
chemical production (being address through MOUs with chemical producers)
accidental release (proposed reg published in Gazette 10-Aug-02)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/butadiene.cfm>
7. **Butylbenzylphthalate (BBP)** (considered NOT to be "toxic", assessment report published in the Canada Gazette, Part 1 February 5, 2000)
Identified in: **consumer products**
<http://www.ec.gc.ca/substances/ese/eng/psap/final/bbp.cfm>
8. **Carbon disulfide** (considered NOT to be "toxic", assessment report published in the Canada Gazette, Part 1 May 27, 2000)
Identified in: **mineral refinery process**
<http://www.ec.gc.ca/substances/ese/eng/psap/final/cs2.cfm>
9. **Inorganic Chloramines** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 June 23, 2001) **DEADLINE 1 – June 23'03, DEADLINE 2 – Dec 23'04**

¹ A Draft Report has been completed. Owing to the considerable limitations of the available data on effects on human health, a definitive conclusion of "toxic" or not "toxic" could not be reached. Therefore, the five year timeframe mandated within CEPA 1999 for assessment of Priority Substances is suspended for a period of six years to collect necessary data on the potential association between exposure to aluminum salts in the environment and Alzheimer's disease.

- Identified in:** **municipal wastewater effluents** (consultations complete, P2 plan notice expected in CG2 Dec 7'04)
drinking water (According to Health Canada, chloramines **will not** be addressed in drinking water.)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/chloramines.cfm>
- 10. Chloroform** (considered NOT to be "toxic", assessment report published in the Canada Gazette, Part 1 March 24, 2001)
Identified in: **municipal wastewater effluents**
chemical production
drinking water
wastewater treatment
<http://www.ec.gc.ca/substances/ese/eng/psap/final/chloroform.cfm>
- 11. N,N-Dimethylformamide (DMF)** (considered NOT to be "toxic", assessment report published in the Canada Gazette, Part 1 March 24, 2001)
Identified in: **fossil fuel refining**
<http://www.ec.gc.ca/substances/ese/eng/psap/final/DMF.cfm>
- 12. Ethylene glycol** (Notice concerning the **suspension of assessment**² was published in the Canada Gazette, Part 1 on December 2, 2000)
Identified in: **fossil fuel refining**
consumer product manufacturing
<http://www.ec.gc.ca/substances/ese/eng/psap/final/ethyleneglycol.cfm>
- 13. Ethylene oxide** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 April 13, 2002) **DEADLINE 1 – April 13'04, DEADLINE 2 – October 13'05**
Identified in: **chemical production** (being address through MOUs with chemical producers)

commercial sterilization (consultations on RMS completed
Spring '03)
accidental release (proposed reg published in Gazette 10-Aug-02)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/ethyleneoxide.cfm>
- 14. Formaldehyde** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 April 13, 2002) **DEADLINE 1 – April 13'04, DEADLINE 2 – October 13'05**
Identified in: **incomplete fuel combustion** (On-Road Vehicle and Engine Emission Regulations published in CGII, Jan.03. Off-Road Small Spark Ignition Engine Emissions Reg. publ. in CG1 29-Mar-03.)
forest product manufacturing (being addressed through CCME, MERS)

² A Draft Report has been completed for ethylene glycol. With respect to human health, owing to the considerable limitations of the available data on both exposure and effects of ethylene glycol, **a definitive conclusion of "toxic" or not "toxic" could not be reached.** Therefore, the five year timeframe mandated within the CEPA 1999 for assessment of Priority Substances is suspended for a period of five years to collect necessary data.

indoor sources (tobacco smoke) Indoor Air Quality Guidelines review ongoing.
residential wood combustion (CSA standards for new wood-burning appliances completed)
chemical production (being address through MOUs with chemical producers)
accidental release (proposed reg published in Gazette 10-Aug-02)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/formaldehyde.cfm>

15. **Hexachlorobutadiene (HCBD)³** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 May 18, 2002) **DEADLINE 1 – May 18'04, DEADLINE 2 – Nov 18'05**

Identified in: **chemical production** (being address through MOUs with chemical producers)
contaminant in products (2nd consultations held Sept. 29 '03)
by-product of incineration (stack sampling / technical study underway)

<http://www.ec.gc.ca/substances/ese/eng/psap/final/HCBD.cfm>

16. **2-Methoxy ethanol** (considered to be "toxic", added to list of toxic substances 25-Oct-03), **2-ethoxy ethanol** (**PROPOSED NOT to be considered "toxic"**), **2-butoxy ethanol⁴** (considered to be "toxic", added to list of toxic substances 25-Oct-03) Conclusions and Ministerial recommendations from assessment report were published in the CGI August 9, 2003.

DEADLINE 1 – AUGUST 9'05, DEADLINE 2 – FEBRUARY 9'07

Identified in: **cosmetics** (working group with HC and EC established)
consumer and manufactured products (studies underway)

<http://www.ec.gc.ca/substances/ese/eng/psap/public/glyclos.cfm>

17. **N-Nitrosodimethylamine⁵ (NDMA)** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 April 13, 2002) **DEADLINE 1 – April 13'04, DEADLINE 2 – October 13'05**

Identified in: **wastes from food production** (discussion with EC and HC ongoing)

commercial chemicals (studies completed)
consumer products (shampoo, rubber – studies underway)

<http://www.ec.gc.ca/substances/ese/eng/psap/final/NDMA.cfm>

³ This substance has been slated for 'virtual elimination' and is the first substance under CEPA to be managed for 'virtual elimination'. HCBD enters the Canadian environment from long-range transport and is also emitted by incineration, but these sources have not yet been addressed in consultation.

⁴ With the release of the Ministerial conclusions on August 9th, 2003, the two year risk management process also started. Separate consultations for 2-Butoxyethanol, and 2-Methoxyethanol are underway with provinces and a range of stakeholders including industry associations and environmental non-governmental organizations to develop appropriate measures and actions. For each substance, a risk management instrument that meets the requirements under CEPA will need to be published in the *Canada Gazette* by August 2005.

⁵ A proposed management options is to add NDMA to the *Prohibition of Certain Toxic Substances Regulations, 2003. Comment period ends October 31, 2003.*

18. **Nonylphenol and its ethoxylates (NPEs)** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 June 23, 2001) **DEADLINE 1 – June 23'03, DEADLINE 2 – Dec 23'04**

Identified in: **consumer products** (soap, cleaners – P2 plan notice under development)
pulp and paper mill effluents (conducted survey on use of NPEs – report available)
textile mill effluents⁶ (consultations complete)
municipal wastewater effluents (consultations complete, P2 plan notice expected in CG2 Dec 7'04)

<http://www.ec.gc.ca/substances/ese/eng/psap/final/npe.cfm>

19. **Phenol** (considered NOT to be "toxic, assessment report published in the Canada Gazette, Part 1 February 5, 2000)

Identified in: **municipal wastewater treatment plants**
pulp, paper and wood production
mineral (non-metallic) production
chemical production
steel and metal production
petroleum refining and production

<http://www.ec.gc.ca/substances/ese/eng/psap/final/phenol.cfm>

20. **Releases from primary and secondary copper smelters and copper refineries**⁷ (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 September 28, 2002) **DEADLINE 1 – September 28'04, DEADLINE 2 – March 28'06**

<http://www.ec.gc.ca/substances/ese/eng/psap/final/CuZn.cfm>

Identified in: **base metals smelting**

21. **Releases from primary and secondary zinc smelters and zinc refineries**
same as above (20)

22. **Releases of radionuclides from nuclear facilities (impacts on non-human species)** (considered to be "toxic", Draft Assessment Report is not yet available to the public)

<http://www.ec.gc.ca/substances/ese/eng/psap/public/radionuclides.cfm>

Identified in: **uranium mines and mills** (ongoing discussions regarding a draft MOU between EC and the Canadian Nuclear Safety Commission)

6 NPEs risk management strategy consultations were combined with those for TMEs and were completed in summer of 2002.

⁷ On September 28, 2002, the following substances were added to the List of Toxic Substances:

- i. particulate matter containing metals that is released in emissions from copper smelters or refineries, or both
- ii. particulate matter containing metals that is released in emissions from zinc plants, and
- iii. sulphur dioxide that has the molecular formula SO₂

On November 2, 2002, the following substances were added to the List of Toxic Substances in Schedule 1 of CEPA:

- iv. particulate matter containing metals that is released in emissions from copper smelters or refineries, or from both, and
- v. particulate matter containing metals that is released in emissions from zinc plants

23. **Respirable particulate matter less than or equal to 10 microns** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 May 27, 2000) **DEADLINE 1 – MAY 27'02, DEADLINE 2 – NOVEMBER 27'03**
Identified in: **incomplete fuel combustion** (On-Road Vehicle and Engine Emission Regulations published in CGII, Jan.03. Off-Road Small Spark Ignition Engine Emissions Reg. publ. in CG1 29-Mar-03.) **forest products manufacturers** (being addressed through CCME, MERS)
residential wood combustion (CSA standards for new wood-burning appliances completed)
iron and steel production (MERS)⁸
concrete and asphalt production (MERS)
base metal smelting (MERS)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/PM-10.cfm>
24. **Road salts** (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 December 1, 2001) **DEADLINE 1 – December 1'03, DEADLINE 2 – June 1'05**
Identified in: **salt storage, use, snow disposal** (ongoing consultations through multistakeholder working group – Code of Practice released for comment until November 18, 2003)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/roadsalts.cfm>
25. **Textile mill effluents (TMEs)**⁹ (considered to be "toxic", assessment report published in the Canada Gazette, Part 1 June 23, 2001) **DEADLINE 1 – JUNE 23'03, DEADLINE 2 – DEC. 23'04**
Identified in: **textile industry wet processes**
municipal wastewater effluents (consultations complete, P2 plan notice expected in CG2 Dec 7'04)
<http://www.ec.gc.ca/substances/ese/eng/psap/final/tme.cfm>

⁸ Multi-pollutant Emission Reduction Analysis Foundation (MERAFA) reports for six industrial sectors (asphalt hot-mix, concrete batch mix, smelter base metals, iron and steel, pulp and paper, and lumber and allied wood product) have been finalized.

⁹ TMEs risk management strategy consultations were combined with those for NPEs and were **completed in summer of 2002**. TMEs were also considered in Municipal Wastewater Effluents consultations in 2002.