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Chemical substances in Batch 2 of the Challenge

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Bisphenol A (BPA)

Bisphenol A (commonly known as BPA) is an industrial chemical used to make a hard, clear plastic known as polycarbonate, which is used in some products available to consumers. BPA may also be found in epoxy resins, which can act as a protective lining on the inside of metal-based food and beverage cans. For information on activities related to BPA (completed after December 2018), please visit the [Bisphenol A in Batch 2 of the Challenge](#) web page.

Information gathering

Section 71 Chemicals Management Plan 2023

In June 2023, a notice was published in the [Canada Gazette, Part I: Vol. 157, No. 25 – June 24, 2023](#) under section 71 of the [Canadian Environmental Protection Act, 1999](#) (CEPA 1999). This notice applies to 1 substance in this batch, thiourea (CAS RN 62-56-6). More information is available on the [Information gathering with respect to certain substances under the Chemicals Management Plan](#) web page.

2017 Mandatory survey - section 71 notice

In April 2017, a notice was issued in the [Canada Gazette, Part I: Vol. 151, No. 13 - April 1, 2017](#) under section 71 of CEPA 1999. The notice applied to 2,4,6-tri-tert-butylphenol (CAS RN 732-26-3), as well as [49 other substances](#) that are toxic as defined under section 64 of CEPA 1999. More information is available on the [certain substances requiring information for risk management](#) web page.

2007 Mandatory survey - section 71 notice

In May 2007, a notice was published in the [Canada Gazette, Part I: Vol. 141, No. 19 - May 12, 2007](#) under section 71 of CEPA 1999. This notice applied to 15 of the 17 substances in this batch. The remaining 2 substances (CAS RNs 732-26-3 and

15086-94-9) had been surveyed under a previous section 71 notice, and the Government had obtained sufficient information that they were not included in the May 2007 notice.

Risk management action milestones

The risk management action milestones table outlines the risk management actions that were proposed for each chemical substance in this batch of the Challenge that met the criteria of section 64 of CEPA 1999. These proposed risk management actions were published in the risk management approaches for these substances. For the complete wording of these proposed actions, please refer to the risk management approaches.

Performance measurement

Conducting performance measurement evaluations allows the Government to assess whether the risk management actions taken on substances found to be toxic under CEPA 1999 were appropriate in meeting risk management objectives, or whether adjustments would help to protect Canadians and their environment. Performance measurement evaluation reports for substances in this batch with risk management actions will be published as they become available.

Adding substances to Schedule 1

Nine substances in this batch were initially proposed to be added to Schedule 1. Following the publication of the proposed addition to Schedule 1, a Board of Review was established for 1 of these substances, D5, to examine the nature and extent of the danger posed by this substance. Following, the receipt of the Board's report, recommendation and the review of all available information, the former recommendation to add D5 to Schedule 1 to CEPA 1999 is annulled. Therefore, in this batch, the final orders to add 8 substances to Schedule 1 to CEPA 1999 have been published.

- Final order adding 7 substances: *Canada Gazette, Part II: Vol. 145, No. 4 - February 16, 2011*

- Final order adding BPA (CAS RN 80-05-7): [Canada Gazette Part II: Vol. 144, No. 21 - October 13, 2010](#)

Applying Significant New Activity provisions

View the [Significant New Activity Publications under the Canadian Environmental Protection Act, 1999](#). Orders are subject to potential amendments under the [Significant New Activity \(SNAc\) Review](#).

- Order amending the Domestic Substances List (DSL) that applies to 5 substances: [Canada Gazette, Part II: Vol. 146, No. 15 - July 18, 2012](#)
- Order amending the DSL that applies to Acid Green 40:1 (CAS RN 70161-19-2) and ADIBSS (CAS RN 83006-67-1): [Canada Gazette, Part II: Vol. 143, No. 11 - May 27, 2009](#)

For additional guidance on submitting information required as part of SNAc notifications, please see the [Guidelines for the Notification and Testing of New Substances: Chemicals and Polymers](#).

Varying the requirements under the Significant New Activity provisions

In July 2019, a notice of intent to amend the DSL to vary the requirements under the SNAc provisions for Acid Green 40:1 (CAS RN 70161-19-2) and ADIBSS (CAS RN 83006-67-1) was published in the [Canada Gazette, Part I: Vol. 153, No. 30 - July 27, 2019](#) for a 60-day public comment period. The proposed amendments are an outcome of the SNAc Review. The DSL amendments do not come into force until the final order is published in the *Canada Gazette*, Part II. Any current requirements under the SNAc provisions remain in effect until then.

In January 2017, a notice of intent to amend the DSL to vary the requirements under the SNAc provisions for thiourea (CAS RN 62-56-6) and epichlorohydrin (CAS RN 106-89-8) was published in the [Canada Gazette, Part I: Vol. 151, No. 2 - January 14, 2017](#) for a 60-day public comment period. The proposed amendments are an outcome of the SNAc Review. The DSL amendments do not come into force until the final order is published in the *Canada Gazette*, Part II. Any current requirements under the SNAc provisions remain in effect until then.

Significant New Activity Notification risk assessment summaries

One substance in this batch has been assessed for new activities notified through Significant New Activity Notifications (SNANs). Two [Significant New Activity Notification risk assessment summaries](#) have been published.

- [Significant New Activity Notification Risk Assessment Summary 1 for Epichlorohydrin](#)
- [Significant New Activity Notification Risk Assessment Summary 2 for Epichlorohydrin](#)

Summary of Batch 2 substances and publications

Substances that meet one or more criteria in section 64 of the CEPA 19

<u>CAS RN</u>	Chemical substance	Performance measurement evaluation report	Final order and <u>RIAS</u>	Public comments on the proposed risk management approach	Final screening assessment
62-56-6	Thiourea	None	HTML	None	HTML
78-79-5	Isoprene	HTML	HTML	HTML	HTML

¹ The *Risk Management Approach for D4* reflects past decisions on a substance (D5) the document is available upon request.

<u>CAS RN</u>	<u>Chemical substance</u>	<u>Performance measurement evaluation report</u>	<u>Final order and RIAS</u>	<u>Public comments on the proposed risk management approach</u>	<u>Final screening assessment</u>
80-05-7	<u>Bisphenol A (BPA)</u>	Health component: <u>HTML</u>	<u>PDF</u>	<u>HTML</u>	<u>HTML</u>
106-89-8	<u>Epichlorohydrin</u>	None	<u>HTML</u>	<u>HTML</u>	<u>HTML</u>
556-67-2	<u>Siloxane D4</u>	None	<u>HTML</u>	<u>HTML</u>	<u>HTML</u>
732-26-3	<u>2,4,6-tri-tert-butylphenol</u>	None	<u>HTML</u>	<u>HTML</u>	<u>HTML</u>
1344-37-2	<u>C.I. Pigment Yellow 34</u>	None	<u>HTML</u>	<u>HTML</u>	<u>HTML</u>
12656-85-8	<u>C.I. Pigment Red 104</u>	None	<u>HTML</u>	<u>HTML</u>	<u>HTML</u>

1 The *Risk Management Approach for D4* reflects past decisions on a substance (D5) th document is available upon request.

Substances that do not meet any of the criteria in section 64 of the CEPA 1999

<u>CAS RN</u>	Chemical substance	Final screening assessment	Public comments
108-05-4	<u>Vinyl Acetate</u>	<u>HTML</u>	<u>HTML</u>
541-02-6	<u>Siloxane D5</u>	<u>HTML</u> ¹	<u>HTML</u> ¹
540-97-6	<u>Siloxane D6</u>	<u>HTML</u>	<u>HTML</u>
2778-42-9	<u>Tetramethyl-m-xylylene diisocyanate</u>	<u>HTML</u>	None
4474-24-2	<u>Acid Blue 80</u>	<u>HTML</u>	None
15086-94-9	<u>D&C Red No. 21</u>	<u>HTML</u>	<u>HTML</u>
70161-19-2	<u>Acid Green 40:1</u>	<u>HTML</u>	None
83006-67-1	<u>ADIBSS</u>	<u>HTML</u>	None
125351-99-7	<u>AMS</u>	<u>HTML</u>	None

¹ These documents reflect past decisions on the substance that are no longer applicable. These documents have been left available for information purposes only.

Siloxane D5

In February 2012, following the consideration of siloxane D5 Board of Review recommendations and of all available information, a revised final decision for siloxane D5 was published in the *Canada Gazette, Part I: Vol. 146, No. 8 - February 25, 2012*. The Government of Canada concluded that D5 is not entering the environment in a quantity or under conditions that constitute a danger to the environment. The former recommendation to add D5 to Schedule 1 to CEPA 1999 is therefore annulled. The following outlines the timelines in making the revised final decision:

- In January 2009, a notice relating to the release of the *Final Screening Assessment for D5* was published in the *Canada Gazette, Part I: Vol. 143, No. 5 - January 31, 2009*. The assessment concluded, based on the information available at that time, that the substance is entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, thus meets 1 or more of the criteria set out in section 64 of the Act;
- In May 2009, a proposed order adding D5 and 8 Batch 2 substances to the List of Toxic Substances in Schedule 1 to CEPA 1999 was published in the *Canada Gazette, Part I: Vol 143, No. 20 - May 16, 2009*.
- In July 2009, a *notice of objection* requesting the establishment of a Board of Review for D5 was filed by the Silicones Environmental, Health and Safety Council of North America.
- In January 2010, a significant amount of new scientific information on D5 became available from industry studies submitted to Environment Canada. In addition, new information became available on D5 from the published literature and from scientific studies conducted at Environment Canada and in other jurisdictions.
- In August 2010, the Minister of the Environment established a Board of Review for D5 to inquire into the nature and extent of the danger posed by D5 was published in the *Canada Gazette, Part I: Vol 144, No. 34 - August 21, 2010*.
- In October 2011, the *Report of the Board of Review for Siloxane D5* was completed. The report considered all the available scientific information and concluded that D5 does not pose a danger to the environment.
- In February 2012, after consideration of all available information including the Board's report and recommendations, the Government of Canada has published a revised decision on D5.

Timelines

Date	Substances affected	Activity
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Date	Substances affected	Activity
June 24, 2023	CAS RN 62-56-6	Publication in Canada Gazette, Part I, of a notice under section 71 of CEPA 1999.
July 27, 2019	CAS RNs 70161-19-2 and 83006-67-1	Publication in <i>Canada Gazette</i> , Part I, of a notice of intent to amend the DSL to vary the requirements under the SNAc provisions, and start of 60-day public comment period.
December 15, 2018	CAS RN 80-05-7	Publication of the <i>Bisphenol A (BPA) risk management approach: performance evaluation for BPA-HEALTH component</i>
April 1, 2017	CAS RN 732-26-3	Publication in <i>Canada Gazette</i> , Part I, of a notice under section 71 of CEPA 1999. The notice applies to 50 substances that are toxic as defined under section 64 of CEPA 1999.
January 14, 2017	CAS RNs 62-56-6 and 106-89-8	Publication in the <i>Canada Gazette</i> , Part I, of a notice of intent to amend the DSL to vary the requirements under the SNAc provisions, and start of 60-day public comment period.
September 9, 2016	CAS RN 106-89-8	Publication of 2 SNAN risk assessment summaries.
July 18, 2012	CAS RNs 62-56-6, 106-89-8, 732-26-3, 1344-37-2 and 12656-85-8	Publication in <i>Canada Gazette</i> , Part II, of an order amending the DSL to apply the SNAc provisions of CEPA 1999.

Date	Substances affected	Activity
February 25, 2012	CAS RN 541-02-6	Publication in <i>Canada Gazette</i> , Part I, of a notice of annulment of the proposed order adding D5 to Schedule 1 and of the final assessment decision under subsection 77(6).
February 16, 2011	CAS RNs 62-56-6, 78-79-5, 106-89-8, 556-67-2, 732-26-3, 1344-37-2 and 12656-85-8	Publication in <i>Canada Gazette</i> , Part II, of a final order adding 7 substances to Schedule 1 to CEPA 1999.
January 22, 2011	CAS RNs 62-56-6, 106-89-8, 732-26-3, 1344-37-2 and 12656-85-8	Publication in <i>Canada Gazette</i> , Part I, of a notice of intent to amend the DSL to apply the SNAc provisions of CEPA 1999, and start of 60-day public comment period.
October 13, 2010	CAS RN 80-05-7	Publication in <i>Canada Gazette</i> , Part II, of a final order adding bisphenol A to Schedule 1 to CEPA 1999.
August 21, 2010	CAS RN 541-02-6	Publication in <i>Canada Gazette</i> , Part I, of a notice to establish a Board of Review for D5.
May 27, 2009	CAS RNs 70161-19-2 and 83006-67-1	Publication in <i>Canada Gazette</i> , Part II, of an order amending the DSL to apply the SNAc provisions of CEPA 1999.

Date	Substances affected	Activity
May 16, 2009	CAS RNs 62-56-6, 78-79-5, 80-05-7, 106-89-8, 541-02-6, 556-67-2, 732-26-3, 1344-37-2 and 12656-85-8	Publication in <i>Canada Gazette</i> , Part I, of a proposed order adding substances to Schedule 1 to CEPA 1999, and start of 60-day public comment period.
January 31, 2009	The remaining 16 substances in Batch 2	Publication in <i>Canada Gazette</i> , Part I, of the final assessment decision under subsection 77(6), release of proposed risk management approach, and start of 60-day public comment period on the proposed risk management approach.
October 18, 2008	CAS RN 80-05-7	Publication in <i>Canada Gazette</i> , Part I, of the final assessment decision under subsection 77(6), release of proposed risk management approach, and start of 60-day public comment period on the proposed risk management approach.
May 24, 2008	CAS RNs 70161-19-2 and 83006-67-1	Publication in <i>Canada Gazette</i> , Part I, of a notice of intent to amend the DSL to apply the SNAc provisions of CEPA 1999, and start of 60-day public comment period.
May 24, 2008	CAS RNs 2778-42-9, 15086-94-9, 70161-19-2, 83006-67-1 and 125351-99-7	Publication in <i>Canada Gazette</i> , Part I, and start of 60-day public comment period on (a) the draft screening assessment and (b) the proposal to pursue one of the measures as specified under subsection 77(2).

Date	Substances affected	Activity
May 17, 2008	CAS RNs 540-97-6, 541-02-6, 556-67-2, 732-26-3, 4474-24-2, 62-56-6, 78-79-5, 106-89-8, 108-05-4, 1344-37-2 and 12656-85-8	Publication in <i>Canada Gazette</i> , Part I, and start of 60-day public comment period on (a) the draft screening assessment, (b) the proposal to pursue one of the measures as specified under subsection 77(2) and (c) the risk management scopes.
April 19, 2008	CAS RN 80-05-7	Publication in <i>Canada Gazette</i> , Part I, and start of 60-day public comment period on (a) the draft screening assessment, (b) the proposal to pursue one of the measures as specified under subsection 77(2) and (c) the risk management scopes.
November 13, 2007	All Batch 2 substances	Deadline for submission of additional information by interested stakeholders, including on the extent and nature of the management/stewardship of Batch 2 substances.
September 12, 2007	All Batch 2 substances	Deadline for submission of information under the section 71 notice on Batch 2 substances (if no extension granted).
May 12, 2007	All Batch 2 substances	Release of Batch 2 of the Challenge and the accompanying technical documents.

Final screening assessments and risk management approaches

In October 2008, the final screening assessment for 1 substance in this batch (BPA) was released and the related notice was published in the *Canada Gazette*, Part I: Vol. 142, No. 42 - October 18, 2008.

In January 2009, the final screening assessments for the remaining 16 substances in this batch were released and the related notices were published in the *Canada Gazette*, Part I: Vol. 143, No. 5 - January 31, 2009.

The final screening assessments concluded that 9 substances in this batch meet one or more criteria in section 64 of CEPA 1999. The Government proposed to add these substances to Schedule 1 to the Act. Proposed risk management approaches were also released on these dates for the substances in this batch which met the criteria in section 64 of CEPA 1999. In February 2012, following the consideration of Siloxane D5 Board of Review recommendations and all available information, a revised final decision for siloxane D5 was released. The former recommendation to add D5 to Schedule 1 to CEPA 1999 is annulled. The 8 remaining substances were added to Schedule 1 to the Act.

Draft screening assessments and risk management scopes

New information was received from industry or interested stakeholders for each of the 17 substances in this batch. In April and May of 2008, the draft screening assessments were released and the related notices were published in the *Canada Gazette*. Risk management scopes were also released in conjunction with these publications:

- *Canada Gazette*, Part I: Vol. 142, No. 16 - April 19, 2008
- *Canada Gazette*, Part I: Vol. 142, No. 20 - May 17, 2008
- *Canada Gazette*, Part I: Vol. 142, No. 21 - May 24, 2008

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