

# Non-confidential summary of information received from the second phase of the Domestic Substances List Inventory Update

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## Purpose

In an effort to increase public awareness and to facilitate access to information on manufactured and/or imported substances in Canada, this document provides a summary of information collected by the Government of Canada under the *Notice with respect to certain substances on the Domestic Substances List*(DSL) that was published in the *Canada Gazette* in December 2012. This document refers to both information provided in mandatory responses to the notice, and information provided on a voluntary basis. The information that was collected for the 2011 calendar year will be used to update the commercial status of remaining priority substances, inform priority setting, support risk assessment and risk management activities and inform the next phase of the DSL Inventory Update (DSL IU).

To complement this summary, the [Non-confidential information received from the DSL IU2](#) is available in EXCEL format.

Please note that the information presented in this document is limited to what was requested in the notice and throughout the document confidential business information (CBI) has been protected (i.e., by providing quantity ranges, or excluding data elements that were designated by submitters as CBI). Consequently, this may have led to underestimates, so conclusions should be drawn with care.

## Background

The [Domestic Substances List](#) (DSL) was first compiled in the early 1990's to identify substances that were in commerce in Canada between 1984 and 1986. As commercial activities with some substances can vary greatly over time, the DSL information becomes dated and no longer represents current commercial activity in Canada. The work to update the DSL, undertaken under the [Chemicals Management Plan](#) (CMP) is conducted in phases. The first phase of the [DSL IU](#) was conducted in 2009 to determine the commercial status in 2008 of approximately 500 inanimate substances. An [Update of Approximately 500 inanimate substances \(chemicals\) on the Domestic Substances List \(Information Summary\)](#) is available.

In December 2012, a notice was issued for the second phase of the DSL IU (DSL IU2) in the [Canada Gazette, Part I: Vol. 146, No. 48 - December 1, 2012](#) under section 71 of the *Canadian Environmental Protection Act, 1999* (CEPA 1999). The notice applied to approximately 2,700 substances and collected information from the 2011 calendar year.

Prior to launching the notice, the Government of Canada held consultations with various stakeholders, including industry, non-governmental organizations and other interested parties to discuss the approach to gathering information on the remaining priority existing substances. The feedback provided during these consultations aided in the development of the overall approach for the DSL IU2. In order to streamline the reporting requirements to address reporting challenges, the Government of Canada tailored the DSL IU2 notice to ensure the focus was on areas of greatest interest. As such, manufactured items included in the notice were limited to categories with greatest potential for exposure. In addition, a tiered approach was used requiring only basic non-quantitative information for substances present in reportable manufactured items, low concentrations and for polymers.

Additional information on the DSL IU2 notice can be found in the [Guidance Document for completing the CEPA section 71 Notice](#).

## Summary of Information Collected

### Overview of Substances Reported

It was determined that approximately half the substances included in the DSL IU2 notice were not reported. The [Substances for which no information was submitted under Phase 2 of the DSL Inventory Update](#) is available. These substances will be examined under the [Rapid Screening](#) and [Polymer](#) Approaches.

**Table 1: Snapshot of data received for DSL IU2**

Data Received	Number of Substances
Included in the notice	2663

**Table 1: Snapshot of data received for DSL IU2**

Data Received	Number of Substances
Reported (via mandatory &/or voluntary submission)	1338
Not reported	1325
<b>Manufactured or Imported in a concentration greater than or equal to 0.1% by weight (w/w)</b>	<b>748</b>
Solely manufactured	81
Solely imported	506
Intended for use in commercial activities	659
Intended for use in consumer activities	437
Intended for use by or for children	204
<b>Manufactured or Imported in a reportable manufactured item</b>	<b>467</b>
<b>Manufactured or Imported in a trace concentration (less than 0.1% w/w)</b>	<b>404</b>
Solely as a contaminant/by-product	196
Solely as a waste	11

**Table 2: Submissions received for DSL IU2 (includes mandatory and voluntary submissions)**

Type of Submission	Number of Submissions Received
Section 71 Notice	531
Declaration of Stakeholder Interest	116

**Table 3: Substances reported in DSL IU2 (via mandatory and/or voluntary submissions)**

Type of Substance	Number of Substances Included in the Notice	Number of Substances Reported	Number of Substances Not Reported
Polymers	559	298	261
Non-polymers	2018	1020	998
Confidential masked substances	86	20	66

## Polymers

The notice requested basic, non-quantitative information on polymers that will contribute to the [Polymer approach](#) in the next phase of the CMP.

**Table 4: The 10 polymer substances most frequently reported as manufactured or imported in quantities greater than 1000 kg**

CAS RN	Substance Name
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**Table 4: The 10 polymer substances most frequently reported as manufactured or imported in quantities greater than 1000 kg**

CAS RN	Substance Name
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-
63148-62-9	Siloxanes and Silicones, di-Me
9003-11-6	Oxirane, methyl-, polymer with oxirane
9010-79-1	1-Propene, polymer with ethene
9003-07-0	1-Propene, homopolymer
9003-55-8	Benzene, ethenyl-, polymer with 1,3-butadiene
24937-78-8	Acetic acid ethenyl ester, polymer with ethene
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica

## Substances in Reportable Manufactured Items

The notice requested non-quantitative information for substances that were manufactured or imported in a manufactured item, and focused on categories of manufactured items with a higher potential for exposure (e.g. intended to be used by children under the age of 6 years; clothing or footwear; bedding, sleeping bags or towels, specific food packaging, reusable food or beverage containers, etc.). The 10 categories of manufactured items that were reportable in DSL IU2 are listed in Schedule 1 of the [Notice with respect to certain substances on the Domestic Substances List](#).

**Table 5: The 10 substances most frequently reported as manufactured or imported in reportable manufactured items in quantities greater than 100 kg, and some of their applications. The order in the table is based on the number of times an application was reported and is not based on the quantity in commerce.**

CAS RN	Substance Name	Most Frequently Reported Applications of the Substances Contained in Reportable Manufactured Items
67-63-0	2-Propanol	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Cleaning and Furnishing Care</li> <li>3. Personal Care</li> </ol>
14807-96-6	Talc ( $Mg_3H_2(SiO_3)_4$ )	<ol style="list-style-type: none"> <li>1. Personal Care</li> <li>2. Paints and Coatings</li> <li>3. Plastic and Rubber materials</li> </ol>
1344-28-1	Aluminum oxide ( $Al_2O_3$ )	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Adhesives and Sealants</li> <li>3. Building or Construction Materials</li> </ol>

**Table 5: The 10 substances most frequently reported as manufactured or imported in reportable manufactured items in quantities greater than 100 kg, and some of their applications. The order in the table is based on the number of times an application was reported and is not based on the quantity in commerce.**

<b>CAS RN</b>	<b>Substance Name</b>	<b>Most Frequently Reported Applications of the Substances Contained in Reportable Manufactured Items</b>
7664-38-2	Phosphoric acid	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Cleaning and Furnishing Care</li> <li>3. Food and Beverage</li> </ol>
128-37-0	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	<ol style="list-style-type: none"> <li>1. Lubricants and Greases</li> <li>2. Personal Care</li> <li>3. Ink, Toner and Colourants</li> </ol>
79-10-7	2-Propenoic acid	<ol style="list-style-type: none"> <li>1. Adhesives and Sealants</li> <li>2. Paints and Coatings</li> <li>3. Cleaning and Furnishing Care</li> </ol>
100-51-6	Benzenemethanol	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Personal Care</li> <li>3. Adhesives and Sealants</li> </ol>
7439-96-5	Manganese	<ol style="list-style-type: none"> <li>1. Metal materials</li> <li>2. Building or Construction Materials</li> <li>3. Automotive, Aircraft and Transportation</li> </ol>
102-71-6	Ethanol, 2,2',2''-nitrilotris-	<ol style="list-style-type: none"> <li>1. Personal Care</li> <li>2. Cleaning and Furnishing Care</li> <li>3. Lubricants and Greases</li> </ol>
1328-53-6	C.I. Pigment Green 7	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Ink, Toner and Colourants</li> <li>3. Plastic and Rubber materials</li> </ol>

**Table 6: The 10 applications most frequently reported for substances contained in reportable manufactured items in quantities greater than 100 kg and the number of substances reported for each application**

<b>Applications of the Substances Contained in Reportable Manufactured Items</b>	<b>Number of Substances</b>
Personal Care	158
Paints and Coatings	101
Lubricants and Greases	81

**Table 6: The 10 applications most frequently reported for substances contained in reportable manufactured items in quantities greater than 100 kg and the number of substances reported for each application**

<b>Applications of the Substances Contained in Reportable Manufactured Items</b>	<b>Number of Substances</b>
Laundry and Dishwashing	79
Cleaning and Furnishing Care	71
Air Care	56
Metal materials	56
Adhesives and Sealants	55
Plastic and Rubber materials	48
Automotive, Aircraft and Transportation	46

## **Substances in Trace Concentrations [less than 0.1% by weight (w/w)]**

The notice requested basic, non-quantitative information for substances that were manufactured or imported in a mixture or product at a concentration less than 0.1% w/w.

**Table 7: Number of substances reported in trace concentrations (less than 0.1% w/w) in mixtures or products, and amount manufactured or imported solely as a contaminant, by-product or waste**

<b>Substances Reported in Trace Concentrations</b>	<b>Number of Substances</b>
<b>Manufactured or imported in a trace concentration in mixtures or products</b>	<b>404</b>
<b>solely</b> manufactured or imported in <b>trace concentrations</b>	22 <small><a href="#">Footnote Table 7(a)</a></small>
<b>solely</b> manufactured or imported as a <b>contaminant / by-product</b>	196
<b>solely</b> manufactured or imported as a <b>waste</b>	11

### **Footnote Table 7**

Although 404 substances were manufactured or imported in trace concentrations, they may have also been manufactured or imported at concentrations greater than or equal to 0.1% w/w, 22 of these substances were **only** reported in DSL IU2 as being manufactured or imported in trace concentrations.

## **Substances in Concentrations greater than or equal to 0.1% w/w**

The notice requested more detailed information, such as quantitative information, for substances that were manufactured or imported alone, in a mixture, or in a product in

concentrations greater than or equal to 0.1% w/w. A total of 748 substances were reported as manufactured or imported at a concentration greater than or equal to 0.1% w/w during the 2011 calendar year, and 273 of these substances were solely reported in DSL IU2 as being manufactured or imported at a concentration greater than or equal to 0.1%.

**Table 8: The top 5 substances imported in concentrations greater than or equal to 0.1% (alone or in mixture/product) based on the total quantities reported, and some of their applications (Quantities reflect volume ranges in order to protect CBI)**

Rank	CAS RN	Substance Name	2011 Imported Quantity Range (millions of kg)	Applications
1	7697-37-2	Nitric acid	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Cleaning and Furnishing Care</li> <li>3. Agricultural Products, mixtures or manufactured items (non-pesticidal)</li> </ol>
2	1344-28-1	Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Adhesives and Sealants</li> <li>3. Building or Construction Materials</li> </ol>
3	65996-77-2	Coke (coal)	500 - 749	<ol style="list-style-type: none"> <li>1. Raw materials</li> <li>2. Fuels and Related Products, mixtures or manufactured items</li> <li>3. Metal materials</li> </ol>
4	1317-40-4	Copper sulfide (CuS)	100 - 249	<ol style="list-style-type: none"> <li>1. Metal materials</li> </ol>
5	12125-02-9	Ammonium chloride ((NH <sub>4</sub> )Cl)	100 - 249	<ol style="list-style-type: none"> <li>1. Oil and Natural Gas Extraction</li> <li>2. Personal Care</li> <li>3. Adhesives and Sealants</li> </ol>

**Table 9: The top 10 substances manufactured in concentrations greater than or equal to 0.1% w/w (alone or in mixture/product) based on the total quantities reported, and some of their applications (Quantities reflect volume ranges in order to protect CBI)**

Rank	CAS RN	Substance Name	2011 Manufactured Quantity Range (millions of kg)	Applications
1	129618-34-4	Electrolytes, nickel-manufg.	1,000 - 24,999	CBI
2	74-84-0	Ethane	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Fuels and Related Products, mixtures or manufactured items</li> <li>2. Oil and Natural Gas Extraction</li> </ol>
3	128704-79-0	Leach solutions, zinc refining	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Other metal processes</li> </ol>
4	65996-77-2	Coke (coal)	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Raw materials</li> <li>2. Fuels and Related Products, mixtures or manufactured items</li> <li>3. Metal materials</li> </ol>
5	69012-24-4	Wastewater, zinc sulfate electrolytic, acid	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Other metal processes</li> </ol>
6	69011-86-5	Zinc ores, concs., preleached	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Metal materials</li> </ol>
7	65996-69-2	Slags, ferrous metal, blast furnace	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Adhesives and Sealants</li> <li>2. Building or Construction Materials</li> <li>3. Paints and Coatings</li> </ol>
8	65996-71-6	Slags, steelmaking	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Building or Construction Materials</li> </ol>
9	68131-30-6	Sulfite liquors and Cooking liquors, green	1,000 - 24,999	<ol style="list-style-type: none"> <li>1. Paints and Coatings</li> <li>2. Other intermediate chemical</li> </ol>
10	69012-79-9	Calcines, zinc ore-conc.	1. - 999	<ol style="list-style-type: none"> <li>1. Metal materials</li> </ol>



**Table 10: The 10 sectors [Footnote Table 10\(a\)](#) most frequently reported for substances that were manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in mixture/product), and the top substances reported for each sector**

NAICS Codes	Industry Sector	CAS RN	Substance Name
4184 418410	Chemical (except agricultural) and allied product merchant wholesalers	67-63-0 14807-96-6 7664-38-2	2-Propanol Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) Phosphoric acid
32551 325510	Paint and coating manufacturing	67-63-0 14807-96-6 872-50-4	2-Propanol Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) 2-Pyrrolidinone, 1-methyl-
325999	Other chemical product manufacturing - All other miscellaneous chemical product manufacturing	67-63-0 7664-38-2 872-50-4	2-Propanol Phosphoric acid 2-Pyrrolidinone, 1-methyl-
32561 325610	Soap and cleaning compound manufacturing	67-63-0 68603-42-9 64-02-8	2-Propanol Amides, coco, N,N-bis(hydroxyethyl) Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt
32519 325190	Basic chemical manufacturing - Other basic organic chemical manufacturing	67-63-0 9016-45-9 112-34-5	2-Propanol Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- Ethanol, 2-(2-butoxyethoxy)-
336110	Automobile and light-duty motor vehicle manufacturing	108-10-1 1344-28-1 98-82-8	2-Pentanone, 4-methyl- Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) Benzene, (1-methylethyl)-
32562 325620	Toilet preparation manufacturing	67-63-0 102-71-6 36653-82-4	2-Propanol Ethanol, 2,2',2''-nitrilotris- 1-Hexadecanol
32521 325210	Resin and synthetic rubber manufacturing	14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) 2-Propanol

**Table 10: The 10 sectors [Footnote Table 10\(a\)](#) most frequently reported for substances that were manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in mixture/product), and the top substances reported for each sector**

NAICS Codes	Industry Sector	CAS RN	Substance Name
		67-63-0 128-37-0	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-
32552 325520	Adhesive manufacturing	14807-96-6 1344-28-1 27138-31-4	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) Propanol, oxybis-, dibenzoate
32411 324110	Petroleum refineries	1344-28-1 67-63-0 98-82-8	Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) 2-Propanol Benzene, (1-methylethyl)-

**Footnote Table 10**

Similar North American Industry Classification System (NAICS) codes were combined to determine the overall ranking.

**Table 11: The 10 functions most frequently reported for substances that were manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in mixture/product), and the number of substances reported for each category**

Substance Function Category	Number of Substances Reported
Intermediates	222
Paint additives and coating additives	186
Processing aids, not otherwise covered	145
Lubricants and lubricant additives	143
Adhesives and sealant substances	133
Processing aids, specific to petroleum production	110
Surface active agents	103
Corrosion inhibitors and anti-scaling agents	91
Solvents (which become part of formulation or mixture)	90
Pigments	89

**Table 12: The 10 consumer and commercial applications most frequently reported for substances that were manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in mixture/product), and the number of substances reported for each application**

<b>Consumer &amp; Commercial Applications</b>	<b>Number of Substances Reported</b>
Paints and Coatings	258
Lubricants and Greases	156
Adhesives and Sealants	149
Plastic and Rubber materials	146
Personal Care	140
Cleaning and Furnishing Care	137
Automotive, Aircraft and Transportation	132
Building or Construction Materials	132
Ink, Toner and Colourants	118
Oil and Natural Gas Extraction	114

**Table 13: Intended uses of substances that were manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in a mixture/product)**

<b>Intended Use</b>	<b>Number of Substances</b>
Intended for use in commercial activities	659
Intended for use in consumer activities	437
Intended for use by or for children (up to 14 years of age)	204

**Table 14: The 10 substances most frequently reported as manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in a mixture/product) intended for use by or for children (up to 14 years of age)**

<b>CAS RN</b>	<b>Substance Name</b>
67-63-0	2-Propanol
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )
102-71-6	Ethanol, 2,2',2''-nitrilotris-
128-37-0	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-
64-02-8	Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt
7664-38-2	Phosphoric acid
151-21-3	Sulfuric acid monododecyl ester sodium salt
111-42-2	Ethanol, 2,2'-iminobis-
7681-57-4	Disulfurous acid, disodium salt
36653-82-4	1-Hexadecanol

**Table 15: The 10 substances most frequently reported as manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in a mixture/product) intended for use in commercial activities**

CAS RN	Substance Name
67-63-0	2-Propanol
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )
1344-28-1	Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )
7664-38-2	Phosphoric acid
102-71-6	Ethanol, 2,2',2''-nitrioltris-
34590-94-8	Propanol, 1(or 2)-(2-methoxymethylethoxy)-
64-02-8	Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt
111-42-2	Ethanol, 2,2'-iminobis-
128-37-0	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-
872-50-4	2-Pyrrolidinone, 1-methyl-

**Table 16: The 10 substances most frequently reported as manufactured or imported in concentrations greater than or equal to 0.1% w/w (alone or in a mixture/product) intended for use in consumer activities**

CAS RN	Substance Name
67-63-0	2-Propanol
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )
102-71-6	Ethanol, 2,2',2''-nitrioltris-
1344-28-1	Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )
151-21-3	Sulfuric acid monododecyl ester sodium salt
64-02-8	Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt
7664-38-2	Phosphoric acid
128-37-0	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-
100-51-6	Benzenemethanol
2082-79-3	Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, octadecyl ester

## Moving Forward

The information that was collected will be used to:

- update the commercial status of substances that are remaining priorities for assessment;
- inform priority setting for the next phase of the CMP;
- help align with international initiatives applicable to Canadian context;
- support subsequent risk assessment and risk management activities, where appropriate; and

- support key initiatives of the next phase of the CMP, such as the [Rapid Screening Approach](#) and the [Polymer Approach](#).

Future phases of the IU will establish a mechanism to monitor the commercial status of substances in Canada. This work will inform priority setting activities, support the operational needs in risk assessment and risk management, and will consider international decisions on substances. Furthermore, the Government of Canada is committed to continuing to communicate results of future Inventory Updates in order to increase transparency and public knowledge of chemicals in commerce in Canada.