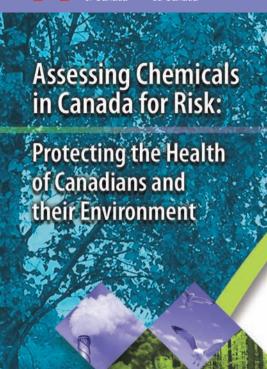


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anadians have used a wide variety of chemicals and other compounds to create new and useful products since the early 1900s. Over time, science has shown us that, along with the benefits, some substances can pose risks to our environment and health. Canadians want to know more about the chemicals with which they come in contact and what effects these chemicals might have on their health and the environment.

As a country that recognizes the value of a healthy environment, Canada has set up processes under the *Canadian Environmental Protection Act, 1999* (CEPA 1999) to scientifically consider in a comprehensive way chemicals that are used in Canada and to manage their risks to protect the health of Canadians and their environment. The Act and its resulting activities also provide information that companies can use to develop safer alternatives to substances that are scientifically determined to be harmful to the environment or human health.

Since 1994, Canada has studied new substances and organisms produced through biotechnology to assess their environmental and health risks before they are permitted entry or are produced in this country. Now, Canada is the first country in the world to undertake a systematic examination of the unassessed chemicals and other substances in use prior to introduction of the evaluation of new substances. In Canada, this represents some 23,000 substances. The Government of Canada is on track to meet its legislated deadline of September 2006 for completing this categorization exercise.

Prevention as a First Line of Defence: Assessing New Substances

All new chemicals as well as organisms produced through biotechnology (i.e. those not used in Canada before 1987) must undergo a government-led health and environmental risk assessment before being imported into or manufactured in Canada.

Under the Government of Canada's New Substances Notification Program, companies or individuals wishing to import or manufacture substances that are new to Canada to be used for a commercial purpose must first notify the Government of Canada so that the substances can be assessed. If a substance is found to pose an unacceptable risk to the health of Canadians or their environment, then conditions may be imposed so that the substance is handled in ways that will reduce or adequately manage those risks. The Government of Canada may not allow some chemicals to be used at all for certain activities if their release to the environment cannot be adequately controlled. This allows Canada to prevent new sources of potential pollution. The Government of Canada assesses approximately 800 substances new to the Canadian marketplace each year.

Addressing the Past: A Systematic Look at Existing Substances

Prior to the New Substances Notification Program coming into effect, companies had to submit a formal list of all the chemicals that they were using or manufacturing commercially in Canada up to that time. This was used to make up the Domestic Substances List which contains approximately 23,000 chemicals. The majority of these chemicals are used in industrial processes and the list also contains some chemicals that can be found in consumer products.

CEPA 1999 requires the Government of Canada to categorize all of the chemicals on the Domestic Substances List by September 2006 to see whether they possess certain characteristics that may indicate they pose a risk to the environment or human health. Those characteristics are:

• **Human Exposure** – those substances that have the greatest potential for exposure to Canadians.

- **Persistence** the time it takes for a substance to break down in the environment.
- **Bioaccumulation** the tendency for a substance to accumulate in the tissues of living beings and be passed up through the food chain.
- Inherent Toxicity whether a substance is harmful by its very nature to human health or other organisms.

Government scientists are collecting and considering the existing information on these chemicals. A wide variety of outcomes are possible. The risk posed by some will be found to be of concern and they will need to be appropriately managed. There may be cases where certain substances are found to no longer be in use in Canada, but where the hazard is such that the government wants to take action to ensure that the chemicals are not reintroduced. Alternatively, there may be substances that are used widely throughout Canada, but pose relatively little to no risk. Additionally, there may be other substances for which there is little scientific data and will require further research. Accordingly. this means that only a fraction of the substances on the Domestic Substances List will go forward through a full risk assessment and risk management.

This examination of the Domestic Substances List does not make a determination as to the risk a chemical may pose. Rather, it provides a sorting process to tell us which chemicals may need further study or action and which do not and which should be given priority. When a chemical is assessed following this sorting, and evidence demonstrates that it poses unacceptable risks to human health or the environment, it will be subjected to controls or phased out, according to the risk management requirements that already exist in Canada. Until such time as specific risk management actions are taken on any given substance, a substance on the Domestic Substances List may continue to be used in Canada.

The Path Forward to Protect Canadians

The work to categorize the Domestic Substances List is an enormous undertaking – it has not been attempted by any other government in the world. And yet, all nations face the same challenge. That is why the Government of Canada seeks input from other nations and is freely sharing the information that this exercise generates so that many countries can share in the effort to protect our global environment and our collective health.

Industries play an important role by sharing the information they have on the chemicals they use and by being innovative in finding ways to manage those chemicals identified as hazardous. Research institutes and universities in Canada and around the world are also involved by filling information gaps and developing tools for efficient assessment of these chemicals. The environmental community is monitoring the process and lending its own experts to the consultation process. As well, the Government of Canada is generating a significant body of research and robust scientific tools that will assist in future chemical assessments and risk management decisions. The Categorization exercise under CEPA 1999 is providing a wealth of additional scientific benefits that will further future research around the world.

Through this landmark exercise and its partnerships, Canada is addressing public concerns and leading the way towards a sustainable chemical management system that benefits the environment, human health and the economy.

For more information contact us or visit our websites:

Existing Substances Program

Environment Canada

Phone: 1-888-228-0530 (in Canada)

(819) 956-9313

Fax: (819) 953-4936 Email: dsl.surveyco@ec.gc.ca

www.ec.gc.ca/substances/ese see also: www.ec.gc.ca/CEPARegistry/subs_list/

Health Canada

Phone: (613) 941-3510 Fax: (613) 954-2486 Email: ExSD@hc-sc.gc.ca

www.hc-sc.gc.ca/ewh-semt/contaminants/

existsub/index e.html

