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# Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

**Bureau of Chemical Safety  
Food Directorate  
Health Products and Food Branch**

**A PAHO/WHO Collaborating Center for  
Food Contamination Monitoring**



*November, 2008*



Canada

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

*Health Canada is the federal department responsible for helping the people of Canada maintain and improve their health. We assess the safety of drugs and many consumer products, help improve the safety of food, and provide information to Canadians to help them make healthy decisions. We provide health services to First Nations people and to Inuit communities. We work with the provinces to ensure our health care system serves the needs of Canadians.*

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# Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

[New Information notice: December 4th 2008  
http://www.hc-sc.gc.ca/fn-an/alt\\_formats/hpfb-dqpsa/pdf/pubs/melamine\\_errata-eng.pdf](http://www.hc-sc.gc.ca/fn-an/alt_formats/hpfb-dqpsa/pdf/pubs/melamine_errata-eng.pdf)

## Background

Melamine (CAS No. 108-78-1) is the common name for 1,3,5-Triazine-2,4,6-triamine. Melamine is a synthetic chemical used in a variety of industrial applications including the production of resins and foams, laminates, glues, cleaning products, fertilizers and pesticides.

Melamine is not naturally occurring, has no accepted food uses, and is not permitted to be added to food in Canada. However, low levels of melamine may be present in the environment as the result of its many commercial uses, and trace amounts may occur in certain food commodities. The presence of low background levels (in the range of parts per billion or ppb) of melamine in food does not pose a health risk to consumers. High levels of melamine in any food product are thought to be due to intentional contamination in an attempt to artificially increase the protein content.

Recently, there have been numerous reports from several countries of the possible contamination of a variety of food products from China with melamine, specifically infant formula and other foods that contain milk and milk-derived ingredients.

In response to these reports, Health Canada conducted a survey to determine the background levels of melamine in infant formula products allowed for sale in Canada. It is important to note that infant formula products available for sale in Canada are subject to pre-market notification as required by Division 25 of the *Food and Drug Regulations*. These products have to satisfy stringent chemical, microbiological, nutritional, and quality requirements.

In this survey, samples of 80 different infant formula products were analysed for melamine, [using a method with a detection limit of 4 ng/g of melamine](#). The results of this survey were used to estimate dietary intakes of melamine for infants of different ages.

## Sampling Plan and Analytical Methodology

The survey covered 80 infant formula products that are marketed under 14 brands by 10 different companies. The products were purchased between September 22, 2008 and October 6, 2008 from retail and grocery stores in the Ottawa area. Among the 80 products, 65 products were milk based, 13 products were soy based, 1 product was milk and soy based, and 1 product was made from casein derivatives and soy oil; 52 products were powdered and 28 were liquid of which 7 products were ready to use and 21 were concentrated.

### Notes:

- Infant formula samples were tested as sold. Note that powdered and concentrated infant formulas are diluted with drinking water prior to consumption. Powdered infant formula is diluted with drinking water by up to an 8 fold factor. Concentrated liquid infant formula is usually diluted by a factor of 2 prior to consumption.
- It should be noted that the absence of any particular brand from this survey means only that the brand was not included in the survey. No particular inference should be drawn from the presence or absence of any brand.

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

- In most cases, samples of each product were taken from only one production lot. Therefore, variations from one production lot of a product to another lot were not addressed.
- When there was more than one production lot tested for a product, the results from that product are differentiated in the table by an arbitrary lot letter (e.g. Lot A, Lot B, etc). When multiple samples from the same lot were tested, the results were averaged and reported as a single sample (an asterisk \* is added to denote averaged results).
- Samples represent a “snapshot” of the market and do not represent market share. Differences between brands do not necessarily reflect differences in consumer exposure to background levels of melamine and should not be used as indices of good product choice for consumers.

### Melamine Levels in Infant Formula Products

Appendix 1 summarizes the concentration of melamine determined in samples of infant formula products. Melamine was detected in 60 of the 80 products sampled. Detectable concentrations of melamine ranged from 4.31 to 346 ng/g, well below Health Canada’s interim maximum level of 1000 ng/g of melamine in infant formula.

### Health Risk Assessment for Background Levels of Melamine in Infant Formula Found on the Canadian Market

All infant formula products must undergo a rigorous pre-market evaluation and be approved by Health Canada before they are allowed for sale in Canada. No infant formula produced in China is approved for sale in Canada. To date, no melamine-contaminated infant formula has been discovered in Canada and no melamine related illnesses associated with any food has been reported in Canada.

For the purposes of differentiating between the presence of low background levels of melamine in food and the problem of intentional adulteration of infant formula, the Bureau of Chemical Safety’s Food Research Division of Health Canada conducted this survey to determine the background levels of melamine in infant formula products allowed for sale and available on the Canadian retail market. This survey has allowed Health Canada scientists to quantify the background occurrence of melamine in infant formula, assess the potential risks associated with exposure to melamine through the consumption of infant formula, and make any necessary changes to current risk management strategies.

### Hazard Characterization

The toxicological reference dose established by Health Canada scientists for melamine of 0.35 mg/kg bw/day, and applied for the development of the interim standards for both melamine and cyanuric acid in foods, was used in this assessment to evaluate Canadian infant’s exposure to melamine through the consumption of infant formula.

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

A complete description of the hazard characterization is provided in the document: [Health Canada's Human Health Risk Assessment in Support of Standard Development for Melamine in Foods](#).

### Exposure Assessment

#### *Consumption figures and body weights*

Infant formula intake by infants for specific growth periods were obtained from "A Practical Guide to Baby Care" prepared by Institut National de Santé Publique du Québec (2001). Frequency of consumption was assumed to be daily. The average infant weights utilized in this assessment were based on the growth charts from the "[Pediatricians Guide to your Children's Health and Safety](#)".

#### *Analytical results*

This survey analysed 94 samples from 80 different infant formula products available on the Canadian retail market. Of the 80 different products analysed 20 were below the analytical detection limit of 4 ng/g (ppb; parts per billion), representing approximately a 75% incidence of positive detections of low background levels of melamine. Detectable melamine concentrations ranged from 4.31 to 346 ng/g (ppb) in infant formula products "as purchased", and from 0.53 to 68.86 ng/g "as consumed". None of these products contained melamine at levels above the [interim standard of 1 ppm](#) (1 ppm is equal to 1000 ppb) of melamine and cyanuric acid applied to all infant formula and other sole source nutrition products in the form in which they are sold.

Reconstitution factors were applied to concentrations of melamine found in concentrated and powdered infant formula (that is, those products requiring dilution or reconstitution prior to consumption). The reconstitution factors, based on typical product label instructions, were applied in order to obtain melamine concentrations in these products "as consumed". Reconstitution factors were 1, 0.5 and 0.124 respectively for ready-to-use, concentrated and powdered formulas.

Mean and maximum concentrations of melamine "as consumed" were then calculated for infant formula products for each age group taking into consideration the age for which each infant formula product is directed (ie. those products directed at infants of particular age ranges). Table 1 shows the average and maximum concentrations of melamine in infant formulas consumed by infants of different age groups, utilized in the exposure assessment. Non-detects were assumed to contain melamine at a concentration equal to half the detection limit of 4 ng/g. The highest levels of melamine on an "as consumed" basis were found in a ready-to-use infant formula at 68.86 ng/g.

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

**Table 1: Average and maximum concentrations of melamine in infant formula “as consumed” for different age groups of infants.**

Age group	Average body weight (kg)	Infant formula intake (g/day)		Concentration of melamine (ng/g) in infant formula's "as-consumed" (ND=0.5DL) <sup>1</sup>	
		Average	Maximum	Average	Maximum
Premature	1.5	100	100	8.35	68.86
0-1 month	3.9	644	1080	8.35	68.86
2-3 months	5.5	1080	1470	8.35	68.86
4-7 months	7.2	1050	1440	7.53	68.86
8-12 months	9	735	960	7.66	68.86
12-18 months	10.6	750	900	7.66	68.86

<sup>1</sup>The non-detects (ND) were set to half the detection limit (DL) of 4 ng/g

### *Probable Daily Intake (PDI) Values*

A deterministic exposure assessment was used to calculate Probable Daily Intakes (PDI) of melamine for different age groups of infants based on the survey results. In particular, the average and maximum infant formula consumption intakes and average and maximum concentrations of melamine in infant formulas “as consumed” were utilised to estimate melamine intakes.

Calculations are based on the following exposure scenarios for each age group:

average infant formula consumption and average melamine concentration “as consumed”

$$\text{PDI melamine } (\mu\text{g/kg bw/day}) = \frac{(\text{avg. infant formula consumption (g/day)}) \times (\text{avg. melamine concentration (ng/g)})}{\text{Body weight (kg)}} \times \frac{\mu\text{g}}{1000\text{ng}}$$

maximum infant formula consumption and maximum melamine concentration “as consumed”

$$\text{PDI melamine } (\mu\text{g/kg bw/day}) = \frac{(\text{max. infant formula consumption (g/day)}) \times (\text{max. melamine concentration (ng/g)})}{\text{Body weight (kg)}} \times \frac{\mu\text{g}}{1000\text{ng}}$$

A summary of the PDIs of melamine for infants of different age groups is shown in Table 2. The PDIs of melamine varied from as low as 0.542 µg/kg body weight per day (0.000542 mg/kg bw/day) for 12-18 month infants to as high as 19.07 µg/kg body weight per day for (0.01907 mg/kg bw/day) 0-1 month old infants assuming a maximum infant formula intake at the maximum melamine concentration “as consumed” found in the survey.



## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

**Table 2. The average and maximum probable daily intakes (PDI) of melamine, and percent contribution of the maximum melamine intakes to the toxicological reference dose (TRD) for different age groups of infants**

Age Group	PDI ( $\mu\text{g}/\text{kg}$ body weight per day)		%TRD Maximum <sup>3</sup>
	Average <sup>1</sup>	Maximum <sup>2</sup>	
Premature	0.557	4.591	1.31
0-1 month	1.379	19.069	5.45
2-3 months	1.64	18.404	5.26
4-7 months	1.098	13.772	3.93
8-12 months	0.626	7.345	2.1
12-18 months	0.542	5.847	1.67

<sup>1</sup>Average PDI is based on the average concentration of melamine in all formula products “as consumed” representing all brands of ready-to-use, concentrated or powdered infant formulas and taking into consideration an average consumption of infant formula for the different age groups of infants.

<sup>2</sup>Maximum PDI is based on the maximum concentration of melamine found in the formula products “as consumed” representing all brands of ready-to-use concentrated or powdered infant formulas and taking into consideration a maximum consumption of the infant formula for different age groups of infants.

<sup>3</sup> The percent contribution of melamine intakes from infant formula to the Toxicological Reference Dose (TRD) for various age groups, taking into consideration the maximum concentration of melamine found in infant formulas “as consumed” and maximum consumption of infant formula for each age group. The TRD employed by the Bureau of Chemical Safety of Health Canada’s Food Directorate is 0.35 mg/kg bw/day.

### Risk Characterization

As an interim risk management measure, Health Canada has set an interim standard for combined residues of melamine and cyanuric acid in infant formula and sole source nutrition products, including meal replacements of **1.0 ppm**. All infant formulas “as sold” and adjusted to an “as consumed” basis, sampled in the survey, were well below this interim standard.

Infant formula samples (ready-to-use, concentrated, and powdered) were collected from the Canadian market (n=94) and analyzed using [Liquid/Liquid Extraction and Cation Exchange Solid Phase Extraction to prepare samples, and Electrospray Positive Ionization Liquid Chromatography Tandem Mass Spectrometry](#) to quantitate melamine (detection limit of 4 ng/g). Average and maximum melamine levels detected in the infant formula “as consumed” were applied to the average and maximum infant formula intake rates by children 0-18 months of age.

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

At the maximum concentration of 68.86 ng/g and at maximum infant formula intakes, less than 10% of the current Health Canada's Toxicological Reference Dose (TRD) would be accounted for in all infant age groups consuming infant formula. As such, it is concluded that these background levels of melamine in infant formula "as consumed" do not represent a health risk to consumers.

### Conclusions

The Bureau of Chemical Safety in Health Canada's Food Directorate conducted a human health risk assessment based on the observed background levels of melamine in infant formula. All of the infant formulas analysed contained either very low levels of melamine or did not contain melamine at detectable levels (using a very sensitive methodology detecting as low as 4 ng/g (4 ppb)). Based on the low levels of melamine found in infant formula, Health Canada scientists have concluded that infant formula products allowed for sale in Canada are safe to consume.

It remains Health Canada's policy that levels of potential contaminants in infant foods should be kept as low as reasonably achievable. While it is not unexpected to detect such low levels of melamine in foods, as those reported in this survey, Health Canada will apply a zero tolerance to any food product where it is determined there had been deliberate adulteration.

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

### Appendix 1:

#### Concentration (ng/g sample) of melamine in infant formula as sold

- It should be noted that the absence of any particular brand from this survey means only that the brand was not included in the survey. No particular inference should be drawn from the presence or absence of any brand.
- Samples represent a “snapshot” of the market and do not represent market share. Differences between brands do not necessarily reflect differences in consumer exposure to melamine.
- When there was more than one production lot tested for a product, the results from that product are differentiated in the table by an arbitrary lot letter (e.g. Lot A, Lot B, etc). When multiple samples from the same lot were tested, the results were averaged and reported as a single sample (an asterisk \* is added to denote averaged results).
- “nd” means that melamine was not detected in that sample based on a detection limit of 4 ng/g.

Company name	Brand name	Product description	Base	Type	Infant age (months)	MEL concentration (ng/g sample)
Abbott Laboratories	Similac	Similac Infant Formula, New Look, Iron Fortified with DigestEase and Immunotide, Step 1	Milk	Powder	0 +	nd
		Similac Regular Infant Formula, New Look, with DigestEase and Immunotide, Step 1	Milk	Powder	0 +	nd
		Similac Advance Infant Formula with Eye Q Nutrition system, Omega-3 and Omega-6, Step 1	Milk	Liquid	0 +	16.5
		Similac Advance Infant Formula with Omega-3 and Omega-6, Immunotide, and DigestEase	Milk	Powder	0 +	5.81
		Similac Advance Alimentum Hypoallergenic Infant Formula, for Milk and/or Soy Allergies	Casein Derivative / Soy Oil	Liquid	Not Indicated	16.9
		Similac Advance Concentrated Infant Formula, Regular - New	Milk	Liquid	0 - 12	34.5
		Similac Advance Concentrated Infant Formula with Iron	Milk	Liquid	0 - 12	33.7
		Similac Sensitive Concentrated Infant Formula, Lactose Free	Milk	Liquid	0 - 12	16.4
		Similac Infant Formula, New Look, Lactose Free	Milk	Powder	0 - 12	nd
		Similac Advance Neosure Infant Formula with Omega's for Premature Babies	Milk	Powder	0 - 12	nd
		Similac Advance Concentrated Infant Formula with Iron, Step 2	Milk	Liquid	6 - 18	32.6

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Abbott Laboratories	Similac	Similac Advance Concentrated Infant Formula with Omega-3 and Omega-6, Calcium Enriched, Iron Fortified, Step 2	Milk	Liquid	6 - 18	27.7
		Similac Go & Grow, Calcium Enriched, Iron-Fortified Infant Formula with Immunotide, Step2	Milk	Powder	6 - 24	nd
	Isomil	Isomil Advance Concentrated Infant Formula with Omega-3 and Omega-6, Step 1	Soy	Liquid	0 +	31.1
		Isomil Advance Infant Formula with Omega-3 and Omega-6, New	Soy	Powder	0 +	nd
		Isomil Concentrated Infant Formula with Soya for Allergy and Sensitivity to Milk Protein	Soy	Liquid	0 - 12	17.9
		Isomil Infant Formula with Soya for Allergy and Sensitivity to Milk Protein, Step 2 for Older Babies	Soy	Powder	6 - 24	nd
	PediaSure ‡	PediaSure Complete Nutrition for Kids, Vanilla Flavour	Milk	Liquid	1-10 yrs	15.2
Costco Wholesale Inc.	Kirkland	Kirkland Infant Formula with Iron	Milk	Powder	Not Indicated	nd
Clearly Canadian Beverage Corp.	My Organic Baby	My Organic Baby Organic Soy-based Infant Formula with Iron, Omega's, LIPIDS DHA/ADH + ARA - Lot A	Soy	Powder	0 - 12	346
		My Organic Baby Organic Soy-based Infant Formula with Iron, Omega's, LIPIDS DHA/ADH + ARA - Lot B	Soy	Powder	0 - 12	334
		My Organic Baby Dairy-Based Infant Formula with Iron and Omega's, DHA/ADH	Milk	Powder	0 - 12	73.6
H.J. Heinz Co.	Heinz	Heinz Nurture Concentrated Infant Formula, Iron Fortified, Step 1	Milk	Liquid	0 - 12	14.1
		Heinz Nurture Infant Formula with Omega-3 and Omega-6	Milk	Powder	0 - 12	62.3
		Heinz Nurture Infant Formula with Whole Milk Protein, Partially Broken Down Protein, Reduced Lactose + Omega-3 and Omega-6	Milk	Powder	0 - 12	42.1
		Heinz Nurture Infant Formula with Omega-3 and Omega-6, Triple Tested for Quality, Safety, and Nutrition	Soy	Powder	0 - 12	41.1
		Heinz Nurture Infant Formula, Iron Fortified, with Omega-3 and Omega-6, Step 2	Milk	Powder	6 - 18	40.0
		Heinz Nurture Nutritional Supplement High in Iron, Step 3, Vanilla Flavour	Milk	Powder	12 +	47.0
Loblaws Inc.	President's Choice	President's Choice Infant Formula Preparation with Iron - Lot A	Milk	Powder	0 - 12	183
		President's Choice Infant Formula Preparation with Iron - Lot B	Milk	Powder	0 - 12	110.5*
		President's Choice Infant Formula with Iron, Step 1	Milk	Powder	0 - 12	74.1
		President's Choice Organic Infant Formula with Iron, Step 1	Milk	Powder	0 - 12	73.1
		President's Choice Concentrated Infant Formula with Iron, Step 1	Milk	Liquid	0 - 12	23.9
		President's Choice Concentrated Infant Formula, Step 1	Milk	Liquid	0 - 12	18.3

‡A Nutritional Supplement

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Loblaws Inc.	President's Choice	President's Choice Concentrated Infant Formula with Iron, Omega-3 and Omega-6	Milk	Liquid	0 - 12	20.8
		President's Choice Soy Infant Formula with Iron, Step 1 - Lot A	Soy	Powder	0 - 12	105
		President's Choice Soy Infant Formula with Iron, Step 1 - Lot B	Soy	Powder	0 - 12	36
		President's Choice Soy Infant Formula with Iron, Step 1 - Lot C	Soy	Powder	0 - 12	32
		President's Choice Soy Concentrated Infant Formula with Iron + Omega 3 and Omega-6, Step 1	Soy	Liquid	0 - 12	20.5
		President's Choice Infant Formula with added Iron and Calcium + Omega-3 and Omega-6, Step 2	Milk	Powder	6 - 18	64.2
Mead Johnson Nutritionals	Enfamil	Enfamil A+ Iron Fortified Infant Formula with LIPIL - Blend of Omega-3 and Omega-6. Our Closest Formula to Breast Milk	Milk	Liquid	Birth +	68.9
		Enfamil A+ Iron Fortified Infant Formula with LIPIL - Blend of Omega-3 and Omega-6. Our Closest Formula to Breast Milk	Milk	Powder	Birth +	nd
		Enfamil Lower Iron Infant Formula, When Lower Iron is Preferred	Milk	Liquid	Birth +	34.5
		Enfamil Lower Iron than other Enfamil Brands Infant Formula. When Lower Iron is Preferred, NEW	Milk	Powder	Birth +	4.31
		Enfamil Concentrated Infant Formula with Iron, New Look	Milk	Liquid	Birth +	19.4
		Enfamil Infant Formula with Iron, New Look, Value Size	Milk	Powder	Birth +	7.07
		Enfamil A+ Iron Fortified Infant Formula with LIPIL - Blend of Omega-3 and Omega-6. With Gentlease for Fussiness or Gas	Milk	Powder	0 - 12	9.41
		Enfamil Thickened A+ Iron Fortified Infant Formula with LIPIL - Blend of Omega-3 and Omega-6. For Babies who Spit up Frequently - Lot A	Milk	Powder	0 - 12	9.11
		Enfamil Thickened A+ Iron Fortified Infant Formula with LIPIL - Blend of Omega-3 and Omega-6. For Babies who Spit up Frequently - Lot B	Milk	Powder	0 - 12	5.52*
		Enfamil Thickened A+ Iron Fortified Infant Formula with LIPIL - Blend of Omega-3 and Omega-6. For Babies who Spit up Frequently - Lot C	Milk	Powder	0 - 12	nd
		Enfamil Nutrimigen Iron Fortified Infant Formula. Hypoallergenic - For Babies with Cow's Milk Allergy	Milk	Powder	0 - 12	4.38
		Enfamil Lactose Free Iron Fortified Infant Formula. For Common Feeding Problems	Milk / Soy	Powder	0 - 12	nd
	Enfamil Iron Fortified Soy Infant Formula, Milk Free Formula	Soy	Powder	0 - 12	nd	
	Enfagrow	Enfagrow Toddler Nutrition, High in Iron and Calcium, Nutritional Supplement, Vanilla Flavour	Milk	Liquid	12 +	25.9
		Enfagrow Toddler Nutrition, High in Iron and Calcium, Nutritional Supplement, Vanilla Flavour	Milk	Powder	12 +	6.81
Enfagrow Toddler Nutrition, High in Iron and Calcium, Nutritional Supplement, Plain Flavour		Milk	Powder	12 +	9.9	

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Mead Johnson Nutritionals	Enfapro	Enfapro Calcium Enriched and Iron Fortified Concentrated Infant Formula	Milk	Liquid	6 +	22.6
		Enfapro Calcium Enriched Infant Formula, Formerly Next Step	Milk	Powder	6 +	5.51
		Enfapro Calcium Enriched and Iron Fortified Infant Formula with LIPIIL - Blend of Omega-3 and Omega-6	Milk	Powder	6 +	nd
Nestlé Nutrition	Nestlé	Nestlé Alsoy Iron Fortified Soy Concentrated Infant Formula, Lactose Free and Vegetarian with Omega-3 and Omega-6 - Lot A	Soy	Liquid	0 - 12	7.57
		Nestlé Alsoy Iron Fortified Soy Concentrated Infant Formula, Lactose Free and Vegetarian with Omega-3 and Omega-6 - Lot B	Soy	Liquid	0 - 12	6.54*
		Nestlé Alsoy Iron Fortified Soy Concentrated Infant Formula, Lactose Free and Vegetarian with Omega-3 and Omega-6 - Lot C	Soy	Liquid	0 - 12	5.50
		Nestlé Alsoy Iron Fortified Soy Infant Formula, Lactose Free and Vegetarian with Omega-3 and Omega-6	Soy	Powder	0 - 12	nd
		Nestlé Good Start Iron Fortified Concentrated Infant Formula with Omega-3 and Omega-6, Easier to Digest	Milk	Liquid	0 - 12	7.24
		Nestlé Good Start Iron Fortified Infant Formula with Omega-3 and Omega-6, Easier to Digest	Milk	Liquid	0 - 12	nd
		Nestlé Good Start Iron Fortified Concentrated Infant Formula, Easier to Digest	Milk	Liquid	0 - 12	6.77
		Nestlé Good Start Iron Fortified Infant Formula, Easier to Digest - Lot A	Milk	Powder	0 - 12	nd
		Nestlé Good Start Iron Fortified Infant Formula, Easier to Digest - Lot B	Milk	Powder	0 - 12	nd
		Nestlé Good Start Iron Fortified Infant Formula with Bifidus Natural Cultures + Omega-3 and Omega-6. New, Easier to Digest	Milk	Powder	0 - 12	nd
		Nestlé Good Start 2 Iron Fortified Infant Formula with Omega-3 and Omega-6, Easier to Digest	Milk	Powder	0 - 12	nd
		Nestlé Good Start 2 Iron Fortified Infant Formula with Added Iron and Calcium and Partially Broken Down Whey Protein. New, Easier to Digest	Milk	Powder	6 +	nd
		Nestlé Follow-Up Transition Iron Fortified Concentrated Infant Formula, Calcium Enriched	Milk	Liquid	6 -18	8.24
		Nestlé Follow-Up Transition, Iron Fortified Infant Formula, Calcium Enriched	Milk	Powder	6 - 18	5.88
		Nestlé Good Start Iron Fortified Concentrated Infant Formula with Added Calcium, Omega-3 and Omega-6, Easier to Digest	Milk	Liquid	6 -18	8.78
		Nestlé Good Start 2 with Added Calcium + Omega-3 and Omega-6, Easier to Digest	Milk	Powder	6 - 18	nd

## Survey and Health Risk Assessment of Background Levels of Melamine in Infant Formula Allowed for Sale in Canada

Nestlé Nutrition	Nestlé	Nestlé Alsop 2 Iron Fortified Infant Formula with Added Calcium + Omega-3 and Omega-6, Lactose Free and Vegetarian, New	Soy	Powder	6 - 24	nd
Shoppers Drug Mart	Life	Life Lower Iron (then other Life brands) Infant Formula	Milk	Powder	0 - 12	94.3
		Life Iron Fortified Infant Formula	Milk	Powder	0 - 12	85.9
		Life Iron Fortified Infant Formula with Omega-3 and Omega-6	Milk	Powder	0 - 12	54.7
		Life Toddler Nutritional Supplement, High in Iron and Calcium, Vanilla Flavour	Milk	Powder	12+	35.2
Sobeys	Compliments	Compliments Little Ones Infant Formula with Iron	Milk	Powder	0 - 12	96.9
Wal-Mart	Parent's Choice	Parent's Choice Regular Infant Formula	Milk	Powder	0 - 12	65.4
		Parent's Choice Infant Formula with Iron	Milk	Powder	0 - 12	83.7
		Parent's Choice Concentrated Infant Formula with Iron	Milk	Liquid	0 - 12	13.8
		Parent's Choice Concentrated Infant Formula with Iron and Omega's	Milk	Liquid	0 - 12	14.7
		Parent's Choice Gentle Infant Formula with Iron, Omega's and Partially Hydrolyzed Whey Protein	Milk	Powder	0 - 12	25.1
		Parent's Choice Soya-Based Infant Formula with Iron and Omega's Milk free and Lactose Free	Soy	Powder	0 - 12	33.0
		Parent's Choice 2 Infant Formula with Iron and Calcium + Omega, For Older Infants	Milk	Powder	6 - 18	59.3
		Parent's Choice Toddler Nutritional Supplement with Iron and Calcium - Lot A	Milk	Powder	12+	120.0
		Parent's Choice Toddler Nutritional Supplement with Iron and Calcium - Lot B	Milk	Powder	12+	45.2