Headline Toxins in mother's milk

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Traces of DDTs still present

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Prof Dr Mustafa Ali Mohd says chemicals and domestic waste eventually end up in streams and rivers

Prof Dr Ahmad Ismail says formula milk diet is one measure to protect infants from POPs risk

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However, the study said that despite the contamination, experts have considered the benefits of breastfeeding against any possible risk acquired by exposure to these chemicals, and have consistently recommended breast-

feeding. Ecologist and toxicologist Professor Dr Ahmad Ismail from Universiti Putra Malaysia said breast milk is still the best choice because it provides components essential for the infant's growth and development.

"Feeding formula milk is one measure to protect infants from POPs risk.

"But how are we to know that the milk and water used to prepare formula milk is not contaminated by POPs, infectious organisms or other environmental pollutants?

"The best solution is to reduce the levels of POPs in breast milk."

POPs, which have been banned in Malaysia since late the 1990s, are characterised by their resistance to environmental degradation and high-ly accumulative nature in ani-

mal tissues.
In the study conducted by
Ehime University of Japan
and Japan Offspring Fund in 2003, samples were collected by the Consumers' Association of Penang through the

Adventist Hospital Nursery The donor mothers were healthy non-smokers

Findings recorded that residue levels of pesticides and insecticides in the milk, DDT in particular, were comparable to those of developing and for-mer Soviet Union republics, but much higher than those in developed nations

This indicated that pollution sources of DDT is still present

Milk from one mother contained dioxin levels as high as the average value in Japan, implying that some residents may be exposed to specific pollution sources of dioxins, such as open dump

The effects of dioxins on children are related to mental and psychomotor development, said Ahmad.

The research concluded that contamination by organochlorine pesticides is a major environmental problem in the population.

The daily intake by some in-

fants exceeded the limit set by the World Health Organisation and Health Canada.

Due to its small sample size, the research could not estab-lish the link between consumption of foodstuffs and sources of contaminants.

However, Dr Mustafa, who has produced similar results using breast milk and umbili-cal cord blood taken from the University Malaya Medical Centre in his research, said mothers could have been exposed through their daily diet.

When chemicals from in-dustrial, agriculture and do-mestic waste are disposed of, they will be washed by rain into the soil and eventually end up in streams and rivers, he

The Selangor river and dam, in a separate research, have been found to contain pesticide residues, some of which are POPs, due to inwhich are in 18, due to 18, the sea of iculture and urban activity.

River water provides about 98 per cent of the country's

water requirements.
"If you throw rubbish outside your house, you think it will not harm you. But this rubbish will just come back to you in bottled drinks," said Dr Mustafa

Mustara.
Filtering tap water does not help, he said, but one will not die from drinking contaminated water because the chemicals come in very small amount.

They are smell-free, tasteless and soluble, rendering them undetectable.

However, some chemicals are more soluble in fat and tend to accumulate in body parts with a lot of fat, like the

breasts, rather than being

flushed out of the system.
"When the mother is preg nant, the breasts are full of milk, which is also fatty. So the first few times when the mother feeds the baby, esp cially the first child, the milk might contain a lot of contam inants like pesticides.

Reducing the presence of POPs in the body system is not as easy a matter as losing fat.

as easy a matter as rosing lat.
There are no short-term
measures, said Dr Mustafa.
"There's nothing that we
can do to stop it totally and immediately. It's not a one-man job. Proper waste disposal measures should be practised.

"For example, you cannot just throw plastics out. They are supposed to be recycled and re-used. The public must be made aware of this.

"I'm not saying that you cannot be exposed (to conhave survived for so long with a certain amount of exposure.

There are certain criteria for the chemicals to exert their effects, like the time of exposure.
"But we don't know when

these chemicals in the moth-er's body will be exposed to at which stage of the baby's development. That is where the danger lies.

