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Editorial Note on Toxic Chemicals & Its Effects

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Editorial Note

The toxic chemicals are the material that can be toxic or cause health effects, they can not quickly break down in the atmosphere, they can build up small organisms' tissues, they can travel up through the food chain.Chemicals can be harmful because they can damage us as they reach or touch the body, posing a danger to human health. For example, nitrogen and sulphur oxide pollution from vehicles cause acid rain, killing fish and other aquatic species in rivers and lakes.

The greenhouse effect and climate change was caused by carbon dioxide gas, the depletion of ozone in the stratosphere by chlorofluorocarbons (CFCs) and the risk of significant environmental harm from ultraviolet radiation. The unintended release of radioactive materials into the marine environment, as well as leakage from storage tanks and pipes, and seepage from waste dumps, all result from oil exploration and shipping, mining, and maritime operations.

Arsenic is a potent toxin, it contaminates many water sources close to mines, causes harm to arsenic by disrupting metabolism at cellular level, and in many mammal species, arsenic can cause foetal death and malformations.

Many petrochemicals can poison fish, killing their eggs and larvae; they are harmful to algae and invertebrates, causing metabolic changes, decreased feeding, and poor shell formation; and they can limit invertebrates' reproductive performance. Petrochemicals can affect birds and mammals' skin, lungs, liver, and kidneys, as well as increase susceptibility to deadly infections by suppressing the immune system. They can also harm plants and prevent seed germination.

The DDT pesticide builds up in the food chain and can last for decades in the climate, since it makes their eggshells too small and reduces the survival of the chicks, DDT is associated with the extinction of the bald eagle, the peregrine falcon, and other birds.

Lead can affect the development and learning of the brain in children and can impact behaviour, high blood pressure, fertility, and growth in both children and adults.Mercury is very harmful, often referred to as a neurotoxin, which suggests that it harms the brain and nervous system and is associated with damage to the kidneys and liver, and possibly cancer.

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