

# Effects of Harmful Substances on Molecular, Cellular, Sub -Organismal, Organismal, Population, Community and Ecosystem Level †

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**Abstract:** Harmful chemicals in aquatic bodies leads to the destruction of many habitats at the molecular, cellular, sub-organismal, and organismal level. Most of the chemicals are present at low concentrations, but the complex made from these chemicals are harmful. The effect of the chemical may be acute or chronic depending upon the exposure time, quality level of toxicants present in them. Freshwater system is being risked by increasing level of anthropogenic chemical stressors. The increasing level of the chemical can lead to habitat loss and affect the other organism in the food chain. Epoxyoroply neodecanoate (EPDA), which is used in paints is with mutagenic properties .when it is being released in water bodies, it leads to ecological instability in water. Toxicity test is conducted to check the level of toxic chemicals in water bodies. This poster represents how chemicals spread from one trophic level to the next in the aquatic ecosystem and explains somewhat about aquatic toxicology.

**Keywords:** toxicans; epoxyoroply neodecanoate; mutagenic; aquatic toxicology; anthropogenic chemical stressors.

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## Conflicts of Interest

The authors declare no conflict of interest.